CASSETTE RECEIVER

KRC-778R/RV/RY/RYV, 878R, PS978R

SERVICE MANUAL

KENWOOD

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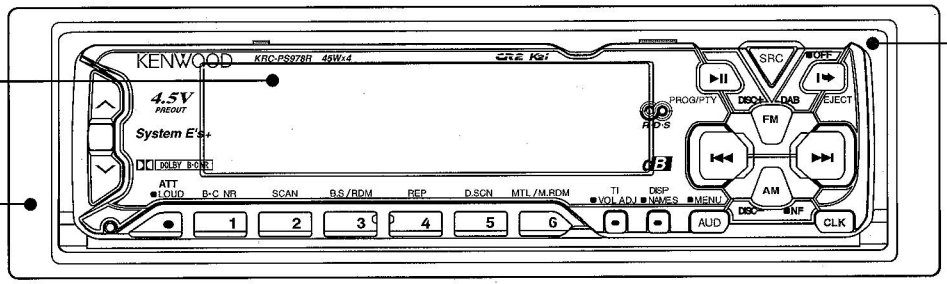
The CASSETTE MECHANISM OPERATION DESCRIPTION is the same model D40-1122-05.
Please refer to the service manual for model D40-1122-05(B51-7452-00).

KRC-PS978R

Front glass
(B10-3095-01)

Escutcheon assy
(B07-2146-03)

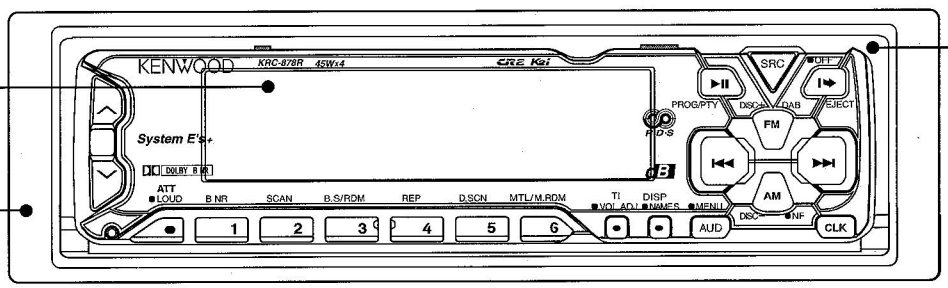


Panel assy
(A64-1854-02)

KRC-878R

Front glass
(B10-3096-01)

Escutcheon assy
(B07-2139-03)

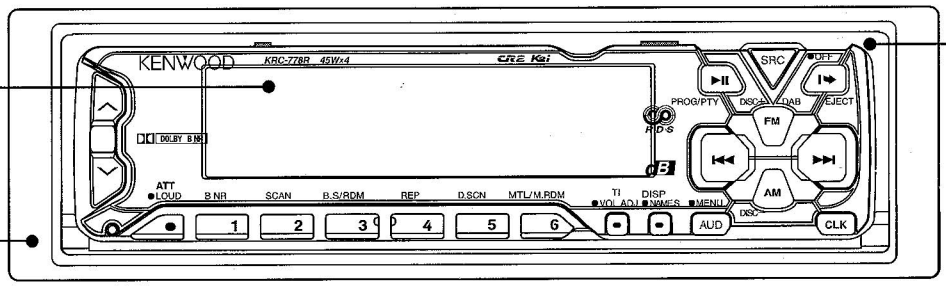


Panel assy
(A64-1855-02)

KRC-778R

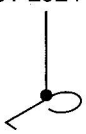
Front glass
KRC-778R/RY :
(B10-3097-01)
KRC-778RV/RYV :
(B10-3098-01)

Escutcheon assy
(B07-2139-03)

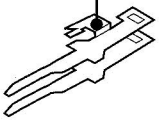


Panel assy
KRC-778R/RY :
(A64-1856-02)
KRC-778RV/RYV :
(A64-1952-02)

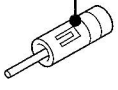
Torsion coil spring
(G01-2924-04)



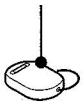
Lever
(D10-4301-14)
(D10-4302-14)



Antenna adaptor
(T90-0523-05)

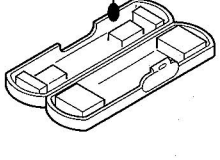


Remote controller assy
(A70-0886-15)

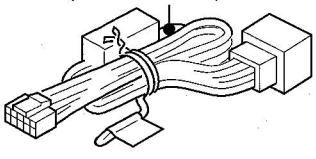


Screw set
(N99-1683-05)

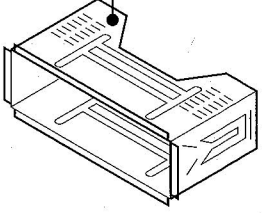
Plastic cabinet assy
(A02-1489-03)



DC cord
KRC-PS978R,878R,778R/RY :
(E30-4788-05)
KRC-778RV/RYV :
(E30-4789-05)



Mounting hardware assy
(J21-9491-03)



Remote controller assy
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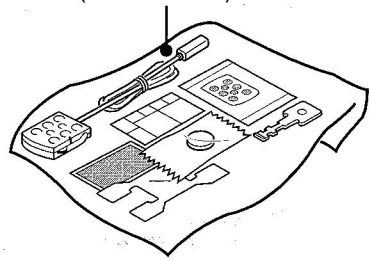
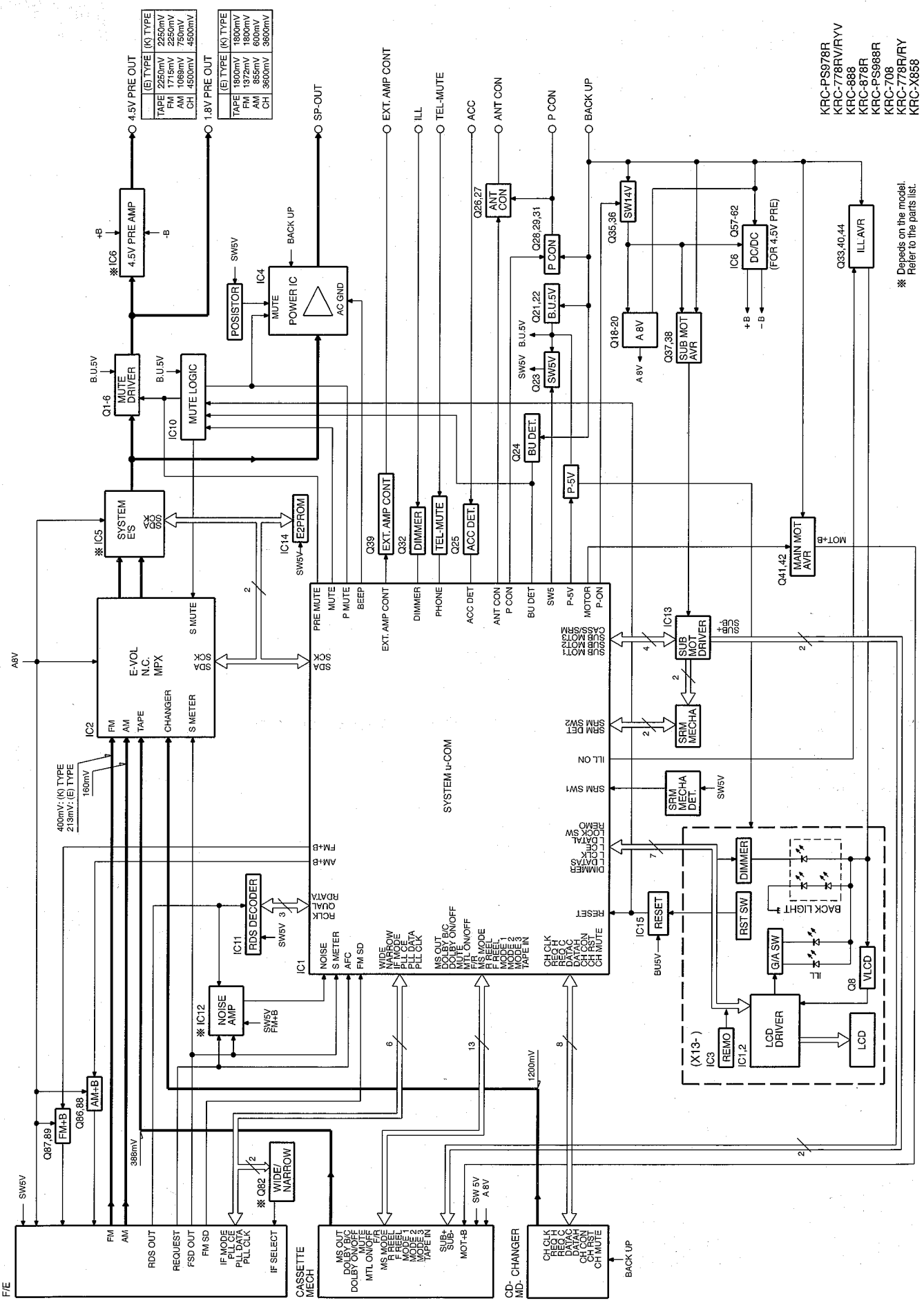


KRC-778R/RV/RY/RYV,878R,PS978R

BLOCK DIAGRAM



MICROCOMPUTER TERMINAL DESCRIPTION

UPD784217GC103(105) (IC1: X14-618X-XX)
System MicroComputer

Pin	Pin Name	Signal Name	I/O	Purpose	Operation Description
1	P120/RTP0	CHCON	O	Changer control terminal.	ON:Hi, OFF:Lo
2	P121/RTP1	CH_MUTE	I	Muting input to changer.	ON:Hi, OFF:Lo
3	P122/RTP2	REQH	O	Handshake request to changer.	
4	P123/RTP3	DIMMER	I	Small detection.	DIMMER ON:Lo, OFF:Hi
5	P124/RTP4	MOTER	O	Cassette mechanism main motor output.	Active; Hi.
6	P125/RTP5	NC	O		
7	P126/RTP6	NC	O		
8	P127/RTP7	NC	O		
9	Vdd	Vdd	-	Positive power supply.	
10	X2	X2	-	Main clock connection.	
11	X1	X1	-	Main clock connection.	
12	Vss	Vss	-	GND terminal.	
13	XT2	XT2	-	Sub-clock connection.	
14	XT1	XT1	-	Sub-clock connection.	
15	RESET	RESET	I	Reset input.	Active: Lo.
16	P00/INTP0	CH_RST	O	Reset output to changer.	Active: Hi.
17	P01/INTP1	R_CLK	I	RDS clock input.	
18	P02/INTP2/NMI	REQC	I	Handshake request from changer.	
19	P03/INTP3	KEY REQ	I		
20	P04/INTP4	SUB_MOTOR3	O	Sub-motor output. 3	
21	P05/INTP5	SUB_MOTOR2	O	Sub-motor output. 2	
22	P06/INTP6	SUB_MOTOR1	O	Sub-motor output. 1	
23	AVdd	Avdd	-	A/D analog power supply.	
24	AVref0	AVref0	-	A/D reference voltage input.	
25	P10/ANI0	PHONE	I	Phone detection.	1 V or less: TEL MUTE /2.5 V or more: NAVI MUTE.
26	P11/ANI1	SRM_SW1	I	SRM position detection.	Open: Hi.
27	P12/ANI2	NOISE	I	FM noise detection.	
28	P13/ANI3	SMETER	I	FM S meter detection.	
29	P14/ANI4	F_REEL	I	Cassette mechanism reel pulse input (FWD).	
30	P15/ANI5	R_REEL	I	Cassette mechanism reel pulse input (REV).	
31	P16/ANI6	N.C.	I		
32	P17/ANI7	N.C.	I		
33	AVss	AVss	-	A/D GND terminal.	
34	P130/ANO0	EXT_AMP	O	External amp control.	L 40mS:Bass boost OFF L 70mS:Bass boost LOW L 100mS:Bass boost Hi
35	P131/ANO1	IF_MODE	I	IF status detection for K2I.	Hi = WIDE, Lo = NARROW
36	AVref1	AVref1	-	D/A reference voltage input.	
37	P70/RxD2/SI2	DATAC	I	Data line from changer.	
38	P71/TxD2/SO2	DATAH	O	Data line to changer.	
39	P72/ASCK2/SCK2	CH_CLK	I/O	Clock line with changer.	
40	P20/RxD1/SI1	L_DATAL	I	Data line from LCD driver.	
41	P21/TxD1/SO1	L_DATAS	O	Data line to LCD driver.	
42	P22/ASCK1/SCK1	L_CLK	O	Clock line to LCD driver.	
43	P23/PCL	DIMMER	O	Dimmer control output.	
44	P24/BUZ	BEEP	O	Beep output.	Active: Hi.
45	P25/SI0	PLL_CE	O	CE to PLL.	
46	P26/SO0	PLL_DATA	I/O	Data input/output with PLL.	
47	P27/SCK0	PLL_CLK	O	Clock output to PLL.	
48	P80/A0	ILL_ON	O	ILL ON	ILL ON : Hi
49	P81/A1	PANEL_5V	O	5V power supply control for LCD driver.	Active: Lo.
50	P82/A2	L_CE	O	CE terminal to LCD driver	
51	P83/A3	LOCK_SW	I	Panel lock SW detection terminal.	Lock SW ON : Lo

MICROCOMPUTER TERMINAL DESCRIPTION

UPD784217GC103(105) (IC1: X14-618X-XX)
System MicroComputer

Pin	Pin Name	Signal Name	I/O	Purpose	Operation Description
52	P84/A4	WIDE	O	K2I Forced Wide output.	H:Forced Wide
53	P85/A5	NARROW	I/O	K2I Forced Narrow output.	H:Forced Narrow
54	P86/A6	AFC	I	Noise detection time constant SW	During reception: Hi /During search: Lo.
55	P87/A7	SRM_SW2	I	SRM eject position detection.	EJECT:Hi
56	P40/AD0	QUAL	I	RDS reception quality.	
57	P41/AD1	R_DATA	I	RDS data input.	
58	P42/AD2	SRM_DET	I	SRM mechanism detection.	Detected: Lo /Not detected: Hi.
59	P43/AD3	FM_SD	I	FM SD input.	Station detected: Hi /Not detected: Lo.
60	P44/AD4	N.C.	O		
61	P45/AD5	MUSIC	I	Blank detection input.	Music detected: Lo /Music not detected: Hi.
62	P46/AD6	B/C	O	Dolby B/C switching.	B = Lo, C = Hi
63	P47/AD7	Dolby	O	Dolby output.	ON : Hi, OFF : Lo
64	P50/A8	EQ_MUTE	O	EQ muting output.	During play: Lo /FF or REW:
65	P51/A9	MTL	O	Metal output.	NOMAL : Hi, METAL : Lo
66	P52/A10	F/R	O	Tape EQ input switching.	FWD:Lo, REW:Hi
67	P53/A11	MSC	O	Blank detection time constant switching.	During play: Hi /FF or REW: Lo.
68	P54/A12	MODE3	I	Cassette mechanism mode detection.	
69	P55/A13	MODE1	I	Cassette mechanism mode detection.	
70	P56/A14	MODE2	I	Cassette mechanism mode detection.	
71	P57/A15	PACK_DET	I	Cassette mechanism pack detection.	Pack detected: Lo.
72	Vss	GND	-	GND terminal.	
73	P60/A16	TYPE0	I	Destination type terminal 0.	
74	P61/A17	TYPE1	I	Destination type terminal 1.	
75	P62/A18	TYPE2	I	Destination type terminal 2.	
76	P63/A19	ST_TYPE0	I	IC2 Ver.3 destination type terminal 0.	
77	P64/RD	ST_TYPE1	I	IC2 Ver.3 destination type terminal 1.	
78	P65/WR	N.C.	O	Not used.	
79	P66/WAIT	N.C.	O	Not used.	
80	P67/ASTB	N.C.	O	Not used.	
81	Vdd	Vdd	-	B.U.5V	
82	P100/TI5/TO5	SVR	O	SVR discharge control.	POWER OFF:Hi
83	P101/TI6/TO6	PREMUTE	O	PRE mute.	Active: Lo.
84	P102/TI7/TO7	PMUTE	O	Power IC muting.	P IC ON : Hi
85	P103/TI8/TO8	CASS/SRM	O	Cassette mechanism / SRM mechanism voltage SW terminal.	C mech.:Hi, SRM mech.:Lo
86	P30/TO0	ANT_CON	O	Antenna control.	Active: Hi.
87	P31/TO1	AM+B	O	AM power supply.	Active: Hi.
88	P32/TO2	FM+B	O	FM power supply.	Active: Hi.
89	P33/TI1	P_CON	O	Power control.	Active: Hi.
90	P34/TI2	ACC_DET	I	Acc detection.	Acc OFF:Hi.
91	P35/TI00	REMO	I	Remote control input.	
92	P36/TI01	P_ON	O	Power supply control.	POWER ON:Hi
93	P37	BU_DET	I	Momentary power down detection.	Power down: Hi.
94	TEST	TEST	-	Test terminal.	
95	P90	IC2_SDA	I/O	IC2, IC5 and EEPROM data line.	
96	P91	IC2_SCK	O	IC2, IC5 and EEPROM clock line.	
97	P92	MUTE	O	Muting terminal.	OPEN:MUTE ON
98	P93	SW5V	O	5 V power supply.	Lo=SW5 ON
99	P94	N.C.	O	Not used.	
100	P95	N.C.	O	Not used.	

TEST MODE

2000 MODEL

(1) How to enter the test mode

Reset the set while holding the FM and preset 6 keys depressed.

All indications light up at the moment the test mode starts.

(2) How to exit from the test mode

Reset the set while holding the preset 6 key.

(Note) The test mode is not canceled by turning Acc OFF, turning power OFF or causing momentary power down.

(3) FM S meter voltage adjustment

1. Enter the test mode.
2. While holding the preset 1 key depressed, press and hold the preset 6 key.
3. "ADJ OK" is displayed when the result is OK or "ADJ NG" is displayed when it is No Good.

(4) AM SD voltage write

1. Enter the test mode.
2. While holding the preset 1 key depressed, press and hold the preset 6 key to write the SD voltage data.

(5) Forced Auto/Manual switching of K2I

Press and hold the TI key in the TUNER mode to switch between AUTO and MANUAL.

The initial status is MANUAL, which is indicated by the lighting of the TI dots.

(6) Forced Narrow/Wide switching of K2I

Press the preset 6 key in the TUNER mode to switch between Forced Narrow and Wide.

The initial status is Wide, which is indicated by the lighting of the NEWS dot.

(7) TAPE test mode specification

o The blank skip function is initially turned off.

(8) Audio adjustments

o The volume should be set to -10 dB (displayed as "30").

o The bass/treble and balance/fader controls are set to full boost/full cut and full front/full rear respectively by single press of the UP/DOWN key.

o The high-pass filter is set to Through/100 Hz/200 Hz by each press of the UP key, or to 200 Hz/100 Hz/Through by each press of the DOWN key.

(9) Back-up current measurement

When the set is reset while Acc is off (i.e. when the back-up power is on) or when Acc is turned off in the middle of test mode, the MUTE pin turns ON in 2 seconds instead of 15 seconds. (The panel/CD/C/MD mechanism is not activated at this time.)

(10) Procedure for security code registration after the E2PROM replacement during servicing (KRC-888 only)

1. Enter the test mode (see "(1) How to enter the test mode").
2. Press the SRC key to select ALL OFF.
3. Press and hold the AUDIO key for 1 second to enter the menu mode.
4. Press the FM/AM key to select "SECURITY".
5. Press and hold the Track UP/DOWN key for 2 seconds.
6. Enter the security code by pressing the preset 1, 2, 3 and 4 keys.

   Example: To enter "3510"
   - Press preset key "1" 4 times.
   - Press preset key "2" 6 times.
   - Press preset key "3" 2 times.
   - Press preset key "4" 1 time.
7. Press and hold the DISP key for 3 seconds so that "APPROVED" is displayed.
8. Exit from the test mode (see "(2) How to exit from the test mode").

(11) Simplified security code clear procedure (KRC-X858, KRC-708)

1. During the code request mode, while holding the DISP key depressed, press and hold the Volume UP key for 3 seconds (so that "----" disappears).
2. Enter "KCAR" from the remote control unit. (Same operation as with the '98 models)
   - Press numeric key "5" 2 times and press the Track UP key (to enter "K").
   - Press numeric key "2" 3 times and press the Track UP key (to enter "C").
   - Press numeric key "2" 1 time and press the Track UP key (to enter "A").
   - Press numeric key "7" 2 times and press the Track UP key (to enter "R").
3. The security is canceled and the set enters the TUNER mode.

(12.1) MASK key write procedure in production line (when the E2PROM is in the initial status)

1. While holding the FM and preset 6 keys depressed, press RESET to enter the test mode.
2. Press and hold the AUDIO key for 1 second to enter the menu mode.
3. Press the FM or AM key to select "Mask key".
4. Press the Track UP/DOWN key shortly so that "TRANSMIT1" is displayed.
5. Point the MASK key to the light sensor and press and hold the key for more than 0.5 second.
6. When "TRANSMIT2" is displayed, press and hold the MASK key again for more than 0.5 second. Note that the first and second counter codes are not compared at this time.
7. The write operation is complete when "APPROVED" is displayed. At this time, the demonstration mode is set and the test mode is canceled.

(Note) Similarly to the '98 models, leaving the set for more than 30 minutes without writing the code causes an error and turns power off.

(12.2) Procedure for canceling the MASK key request (when the set is reset or the back-up power is turned off while the MASK key is enabled)

1. When the power is supplied and the set is switched on, "TRANSMIT1" is displayed and the MASK key request mode starts.
2. Point the MASK key toward the light sensor and press and hold for more than 3 seconds (until the level indicator indicates the full condition).
3. When "TRANSMIT2" is displayed, press and hold the MASK key again for more than 3 seconds.If "TRANSMIT1" is displayed now, go back to step 2 and restart from there again.
4. When "APPROVED" is displayed, the MASK key is enabled and the set is turned on.

(12.3) Procedure for MASK key initialization (Resetting the MASK key enabled condition to the factory-set condition)

1. While holding the FM and preset 6 keys, press RESET to enter the test mode.
2. "TRANSMIT1" is displayed and the MASK key request mode starts.At this time, the display shows "* *" in place of "[ ]".
3. Press the MASK key cancel remote control for more than 3 seconds.
4. When "TRANSMIT2" is displayed, press and hold the MASK key again for more than 3 seconds.
5. When "APPROVED" is displayed, the MASK key is canceled, the demonstration mode is set, the test mode is canceled and the set returns to the factory-set condition.

(12.4) MASK key all-clear procedure

1. While holding the FM and preset 6 keys, press RESET to enter the test mode.
2. Press and hold the AUDIO key for more than 1 second to enter the menu mode.
3. Press the Track UP/DOWN key to select "Mask key".
4. Press and hold the FM or AM key for more than 2 seconds so that "TRANSMIT1" is displayed.
5. Point the MASK key cancel remote control toward the light sensor and press for more than 3 seconds (until the level indicator indicates the full condition).
6. When "TRANSMIT2" is displayed, press and hold the MASK key again for more than 3 seconds.If "TRANSMIT1" is displayed now, go back to step 2 and restart from there again.
7. When "APPROVED" is displayed, the E2PROM is cleared entirely and the condition in "(14) MASK key write procedure in production line (when the E2PROM is in the initial status)" returns.

(13) Other

- o Automatic panel closing when the TAPE/CD/MD is inserted is disabled.
- o Pressing the ATT key ON/OFF opens or closes the panel. (The ATT operation can be activated from the remote control unit.)
- o The DNPP/SBF key of the remote control unit (RC-510) functions as the menu mode ON/OFF key.
- o The OPEN/CLOSE key of the remote control unit (RC-510) functions as the audio adjustment mode ON/OFF key.
- o The menu feed operations occur only with the necessary features.
- o Display such as "CODE OFF" is not displayed at the moment power is turned on.
- o Pressing the TI (AUTO) key during the changer operation turns 2zone on, and pressing the TI (AUTO) key again cancels it. The P/S dot lights during the 2zone operation.
- o Pressing and holding the MENU key for more than 1 second while ALL OFF initiates the MASK KEY write mode.
- o The dimmer control of the FL models or the contrast control of the LCD models can be adjusted only to 0/5/10 using the UP/DOWN keys.

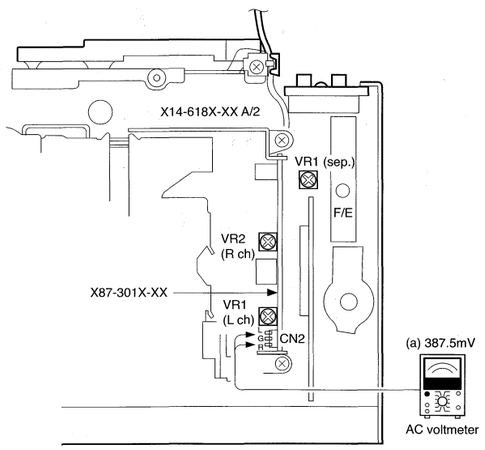
KRC-778R/RV/RY/RYV,878R,PS978R

ADJUSTMENT

Set the controls and switches as follows.
BALANCE :center position BASS :center position LOUD :OFF DOLBY NR :OFF
FADER :center position TREBLE :center position

No	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER (RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
1	SEPARATION (NARROW)	98.1MHz 1kHz,±40kHz dev Pilot:±6.0kHz dev Selector:L or R 60dBμ (ANT input)	Connect a AC voltmeter to SP OUT	TEST MODE:ON (Forced Narrow) FM 98.1MHz	VR1 (X14-)	Adjust it so that the crosstalk from L to R and R to L become minimum.	
2	S METER VOLTAGE	98.1MHz 0 dev 35dBμ (ANT input)	–	TEST MODE: ON FM 98.1MHz	Preset "1" key, and preset "6" key	While holding preset "1" key, press and hold preset "6" key for a few seconds. "ADJ OK" is displayed if the adjustment is OK and "ADJ NG" is displayed if it is not good.	
AM SECTION							
(1)	SD VOLTAGE	990 kHz 0% mod 35dBμ (ANT input)	–	TEST MODE: ON AM 990 kHz	Preset "1" key, and preset "6" key	While holding preset "1" key, press and hold preset "6" key for a few seconds. "ADJ OK" is displayed if the adjustment is OK and "ADJ NG" is displayed if it is not good.	
CASSETTE DECK SECTION							
[1]	AZIMUTH	TCC-153 10kHz	Connect a AC voltmeter to SP OUT	TAPE PLAY	Head Azimuth Screw	Adjust the azimuth for each Lch/Rch or FWD/RVS becomes maximum	
[2]	PLAY BACK LEVEL	TCC-130	Connect a AC voltmeter to CN2	TAPE PLAY	VR1 (L) VR2 (R) (X87)	387.5mV (-6dBm)	(a)

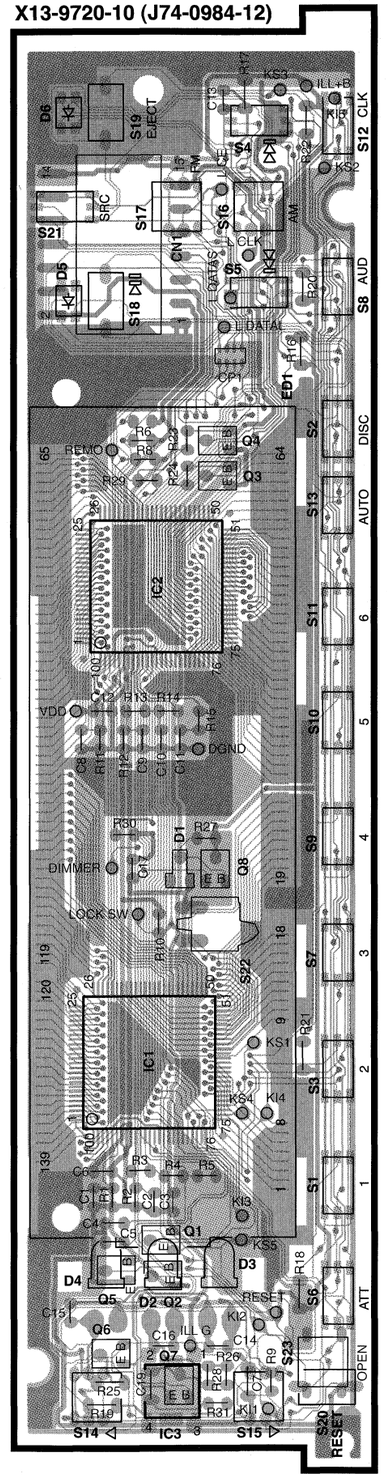
TEST MODE : ON (Forced Narrow)
While holding the "FM" key and preset "6" key, reset the unit.
Press "SRC" key. Tuner mode ON.
Press preset "6" key. "NEWS" goes OFF.



PC BOARD

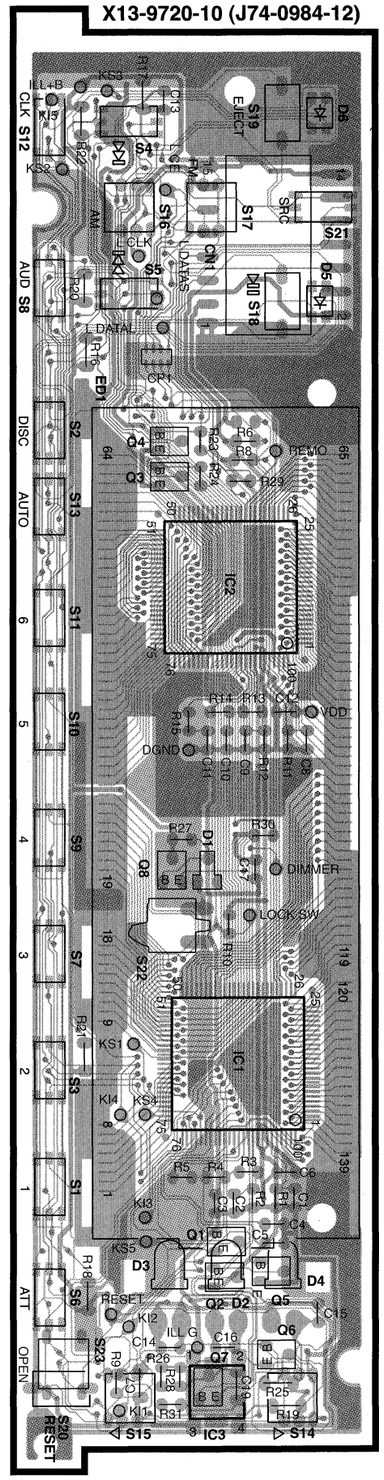
(Component side view)

X13-9720-10 (J74-0984-12)



(Foil side view)

X13-9720-10 (J74-0984-12)



Refer to the schematic diagram for the value of resistors and capacitors.

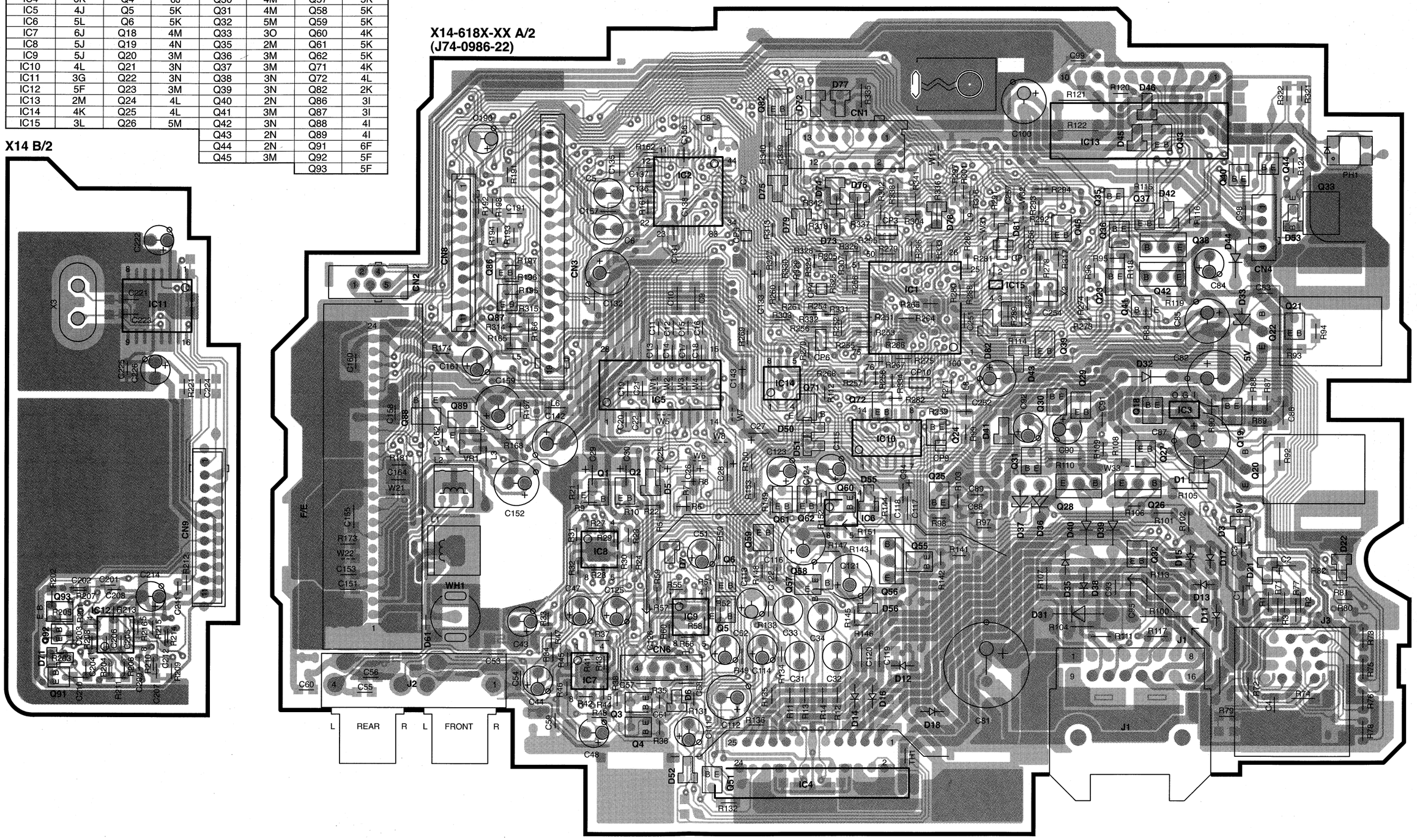
PC BOARD (Component side view)

X14-618X-XX

Ref.No.	Address	Ref.No.	Address	Ref.No.	Address	Ref.No.	Address
IC1	3L	Q1	4J	Q27	4M	Q51	6K
IC2	2J	Q2	4J	Q28	5M	Q55	5L
IC3	4N	Q3	6J	Q29	4M	Q56	5L
IC4	6K	Q4	6J	Q30	4M	Q57	5K
IC5	4J	Q5	5K	Q31	4M	Q58	5K
IC6	5L	Q6	5K	Q32	5M	Q59	5K
IC7	6J	Q18	4M	Q33	3O	Q60	4K
IC8	5J	Q19	4N	Q35	2M	Q61	5K
IC9	5J	Q20	3M	Q36	3M	Q62	5K
IC10	4L	Q21	3N	Q37	3M	Q71	4K
IC11	3G	Q22	3N	Q38	3N	Q72	4L
IC12	5F	Q23	3M	Q39	3N	Q82	2K
IC13	2M	Q24	4L	Q40	2N	Q86	3I
IC14	4K	Q25	4L	Q41	3M	Q87	3I
IC15	3L	Q26	5M	Q42	3N	Q88	4I
				Q43	2N	Q89	4I
				Q44	2N	Q91	6F
				Q45	3M	Q92	5F
						Q93	5F

X14 B/2

X14-618X-XX A/2
(J74-0986-22)



Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Foil side view)

X14-618X-XX

Ref.No.	Address	Ref.No.	Address	Ref.No.	Address	Ref.No.	Address
IC1	3S	Q5	5T	Q36	3R	Q59	5T
IC2	2U	Q6	5T	Q37	3Q	Q60	4S
IC3	4Q	Q18	4Q	Q38	3Q	Q61	5T
IC4	6T	Q19	4Q	Q39	3R	Q62	5T
IC5	4U	Q20	4Q	Q40	2Q	Q71	4T
IC6	5S	Q21	3P	Q41	3R	Q72	4S
IC7	6U	Q22	3P	Q42	3Q	Q82	2T
IC8	5U	Q23	3R	Q43	2Q	Q86	3V
IC9	5T	Q24	4S	Q44	2Q	Q87	3V
IC10	4S	Q25	4S	Q45	3R	Q88	4V
IC11	3X	Q26	4Q	Q51	6T	Q89	4V
IC12	5X	Q27	4Q	Q55	5S	Q91	6Y
IC13	2R	Q28	4R	Q56	5S	Q92	5Y
IC14	4T	Q29	4R	Q57	5T	Q93	5Y
IC15	3R	Q30	4R	Q58	5T		
Q1	4U	Q31	4R				
Q2	4U	Q32	5Q				
Q3	6U	Q33	2P				
Q4	6U	Q35	3R				

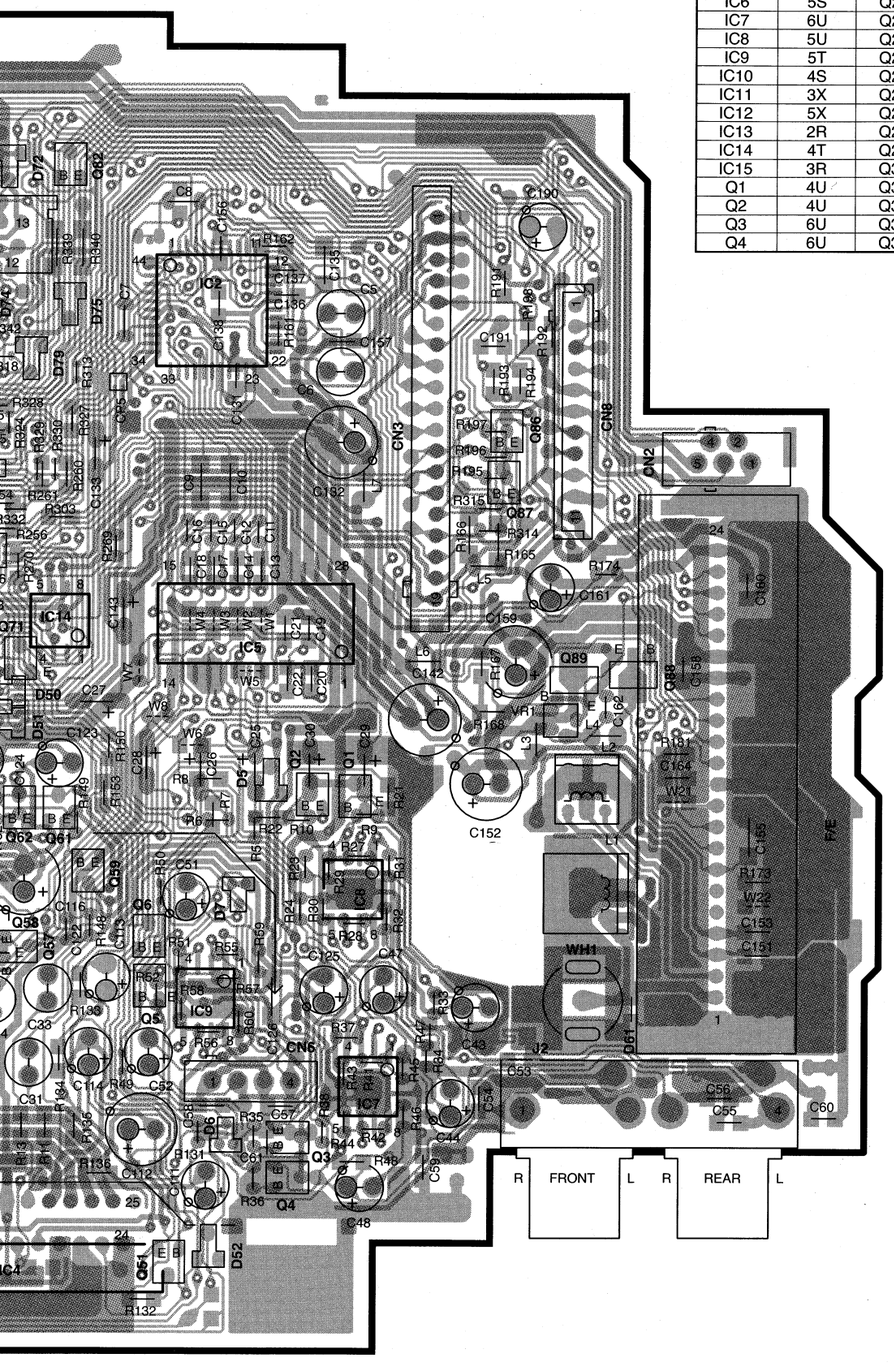
X14-618X-XX A/2 (J74-0986-22)

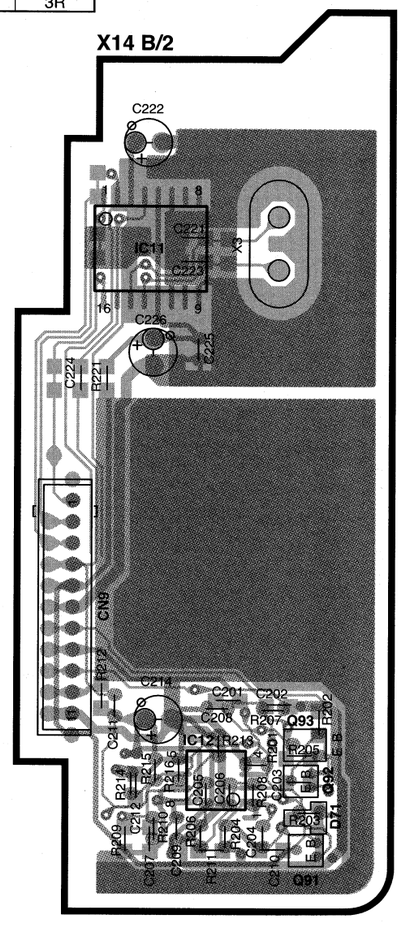
X14 B/2

Refer to the schematic diagram for the value of resistors and capacitors.

X14-618X-XX

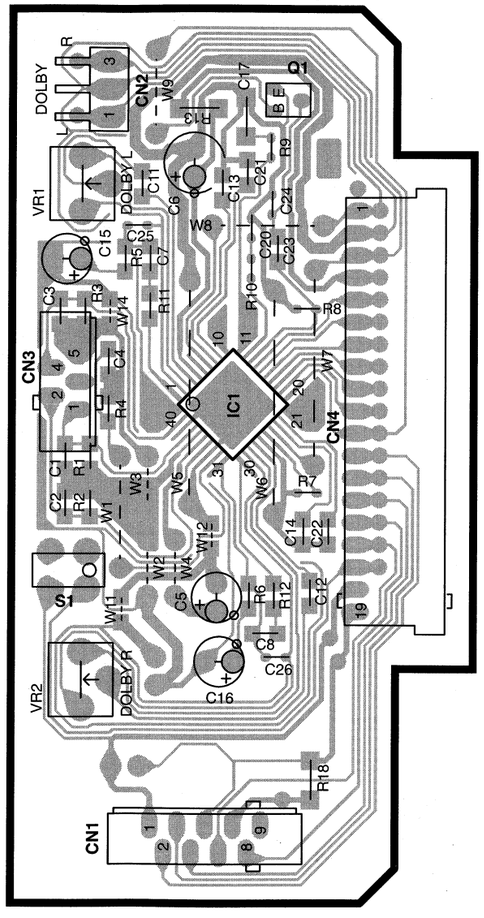
Ref.No.	Address	Ref.No.	Address	Ref.No.	Address	Ref.No.	Address
IC1	3S	Q5	5T	Q36	3R	Q59	5T
IC2	2U	Q6	5T	Q37	3Q	Q60	4S
IC3	4Q	Q18	4Q	Q38	3Q	Q61	5T
IC4	6T	Q19	4Q	Q39	3R	Q62	5T
IC5	4U	Q20	4Q	Q40	2Q	Q71	4T
IC6	5S	Q21	3P	Q41	3R	Q72	4S
IC7	6U	Q22	3P	Q42	3Q	Q82	2T
IC8	5U	Q23	3R	Q43	2Q	Q86	3V
IC9	5T	Q24	4S	Q44	2Q	Q87	3V
IC10	4S	Q25	4S	Q45	3R	Q88	4V
IC11	3X	Q26	4Q	Q51	6T	Q89	4V
IC12	5X	Q27	4Q	Q55	5S	Q91	6Y
IC13	2R	Q28	4R	Q56	5S	Q92	5Y
IC14	4T	Q29	4R	Q57	5T	Q93	5Y
IC15	3R	Q30	4R	Q58	5T		
Q1	4U	Q31	4R				
Q2	4U	Q32	5Q				
Q3	6U	Q33	2P				
Q4	6U	Q35	3R				





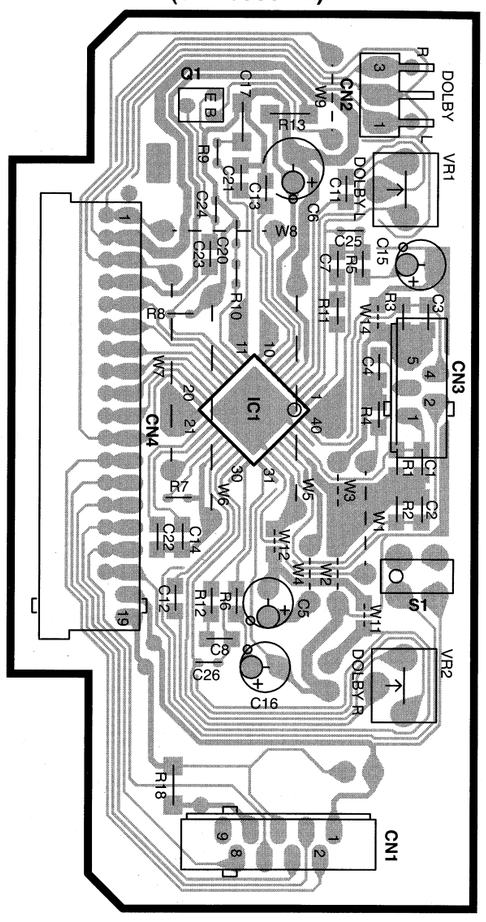
(Component side view)

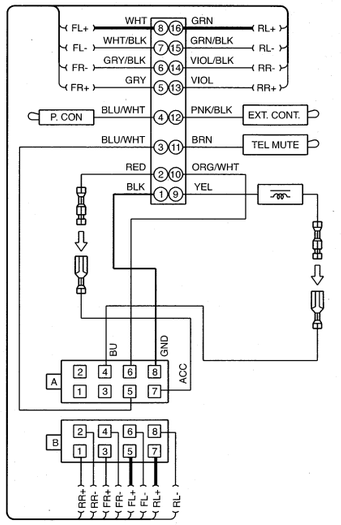
X87-301X-XX (J74-0985-12)



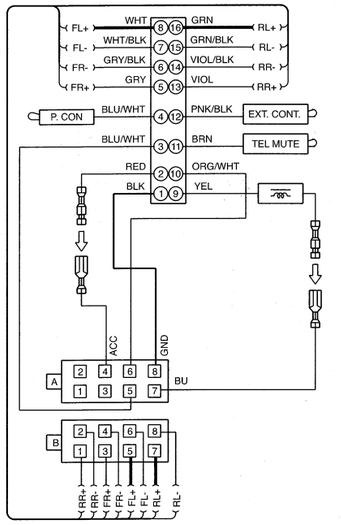
(Foil side view)

X87-301X-XX (J74-0985-12)

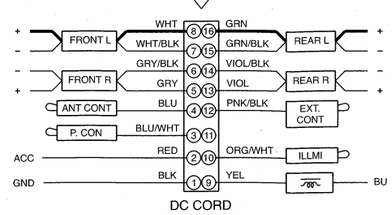




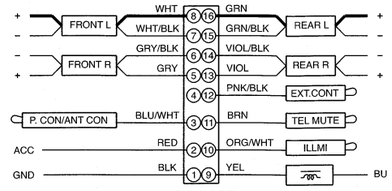
DC CORD
(E30-4788-05)
KRC-PS978R/878R/778R/778RY



DC CORD
(E30-4789-05)
KRC-778RV/778RYV



DC CORD
(E30-4779-05)
KRC-X858/708/888



DC CORD
(E30-4781-05)
KRC-PS988R

(X87-301X-XX)
IC1 : ✱

Q1 : KRC103S

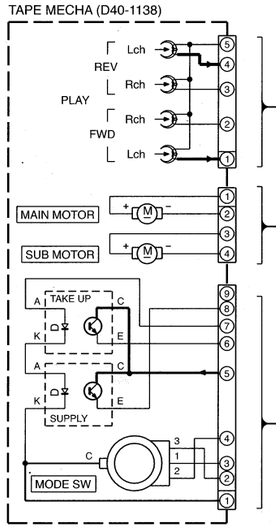
(X87-301X-XX)

UNIT No.	IC1	C24	C25,26	R8	R9	R10	R11,12
2-70	Dolby BC	CXA2561Q	0.047	YES	680K	3K	30K	2.4K
0-11	Dolby B	CXA2560Q	0.039	NO	560K	3.6K	33K	1K

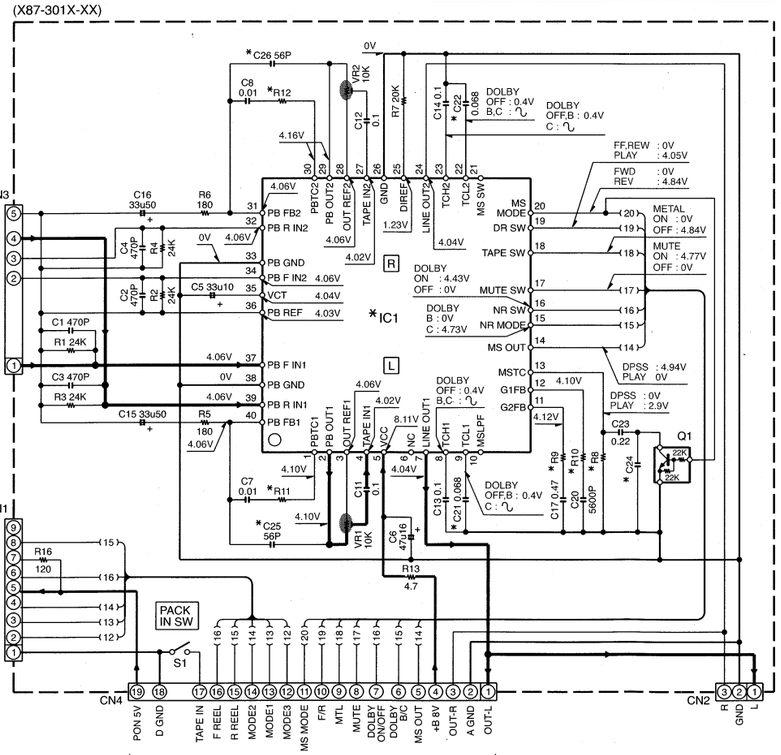
(X87-301X-XX)

MODEL NAME	UNIT No.
KRC-PS978R	2-70
KRC-PS988R	
KRC-878R	0-11
KRC-778R/RY	
KRC-778RV/RYV	
KRC-X858	
KRC-888	
KRC-708	

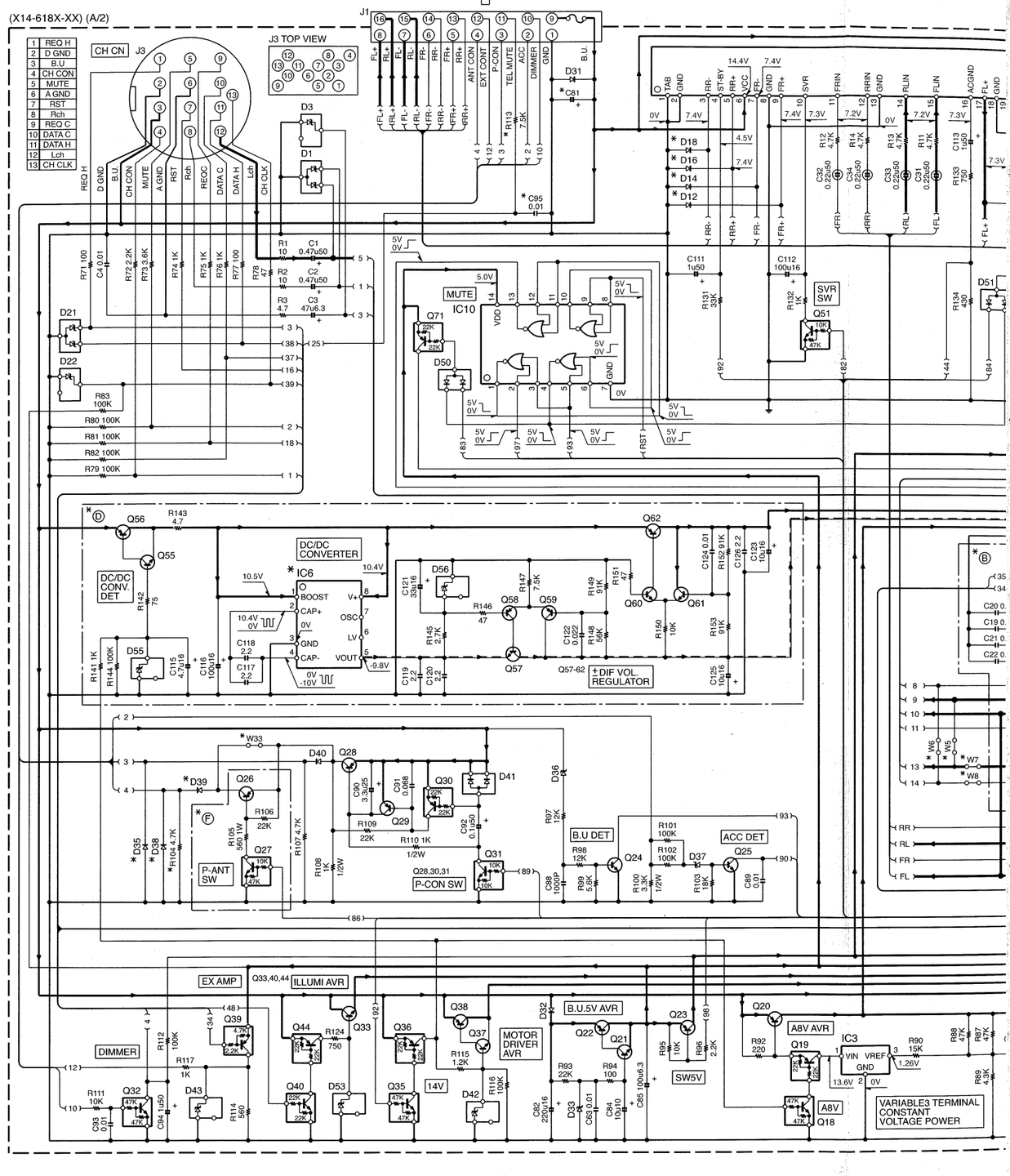
TAPE MECHA (D40-1138)



(X87-301X-XX)



(X14-618X-XX) (A/2)



E F G H I J K L M N O

(X14-618X-XX) (A/2)

DC CORD
(E30-4779-05)
KRC-X858/708/888

DC CORD
(E30-4781-05)
KRC-PS988R

XX)							
	IC1	C24	C25,26	R8	R9	R10	R11,12
BC	CXA2561Q	0.047	YES	680K	3K	30K	2.4K
B	CXA2560Q	0.039	NO	560K	3.6K	33K	1K

1	REQ H
2	D GND
3	B.U
4	CH CON
5	MUTE
6	A GND
7	RST
8	Rch
9	REQ C
10	DATA C
11	DATA H
12	Lch
13	CH CLK

CH CN J3

J3 TOP VIEW

J1

PRE OUT — REAR — FRONT

IC4 POWER IC

IC5

IC2 E-VOL.NC.MPX

IC3 VIN VREF GND 1.26V 13.6V

IC6 DC/DC CONVERTER

IC7 IC8 IC9 4V PRE OUT OP AMP

IC10 MUTE

Q72 IC2 MUTE

Q1 Q2 Q3 Q4 Q5 Q6 PRE OUT MUTE

MON FADER PRE OUT MUTE

NON-FADER

SVR SW

P-ANT SW

P-CON SW

DC/DC CONV. DET

+DIF VOL. REGULATOR

EX AMP

ILLUMI AVR

DIMMER

MOTOR DRIVER AVR

B.U.5V AVR

A8V AVR

A8V

14V

SW5V

VARIABLE3 TERMINAL CONSTANT VOLTAGE POWER

B.U DET

ACC DET

C MECHA MOTOR POWER SW

SYSTEM E'sIC

CN2 R GND L

CN4 MOT +B MOT -G SUB+ SUB-

P Q R S T U V W X Y

IC14 E2P ROM

*IC1 u-COM SYSTEM CONTROL

IC13 MECHA MOTOR DRIVER

SUB MOTOR VOLTAGE SW

IC15 RST IC

IC12 NOISE DET

SRM MECHA

SEPARATION

FORCED/ WIDE SW

FM+B

AM+B

CN1

CN2 FPC

CN3

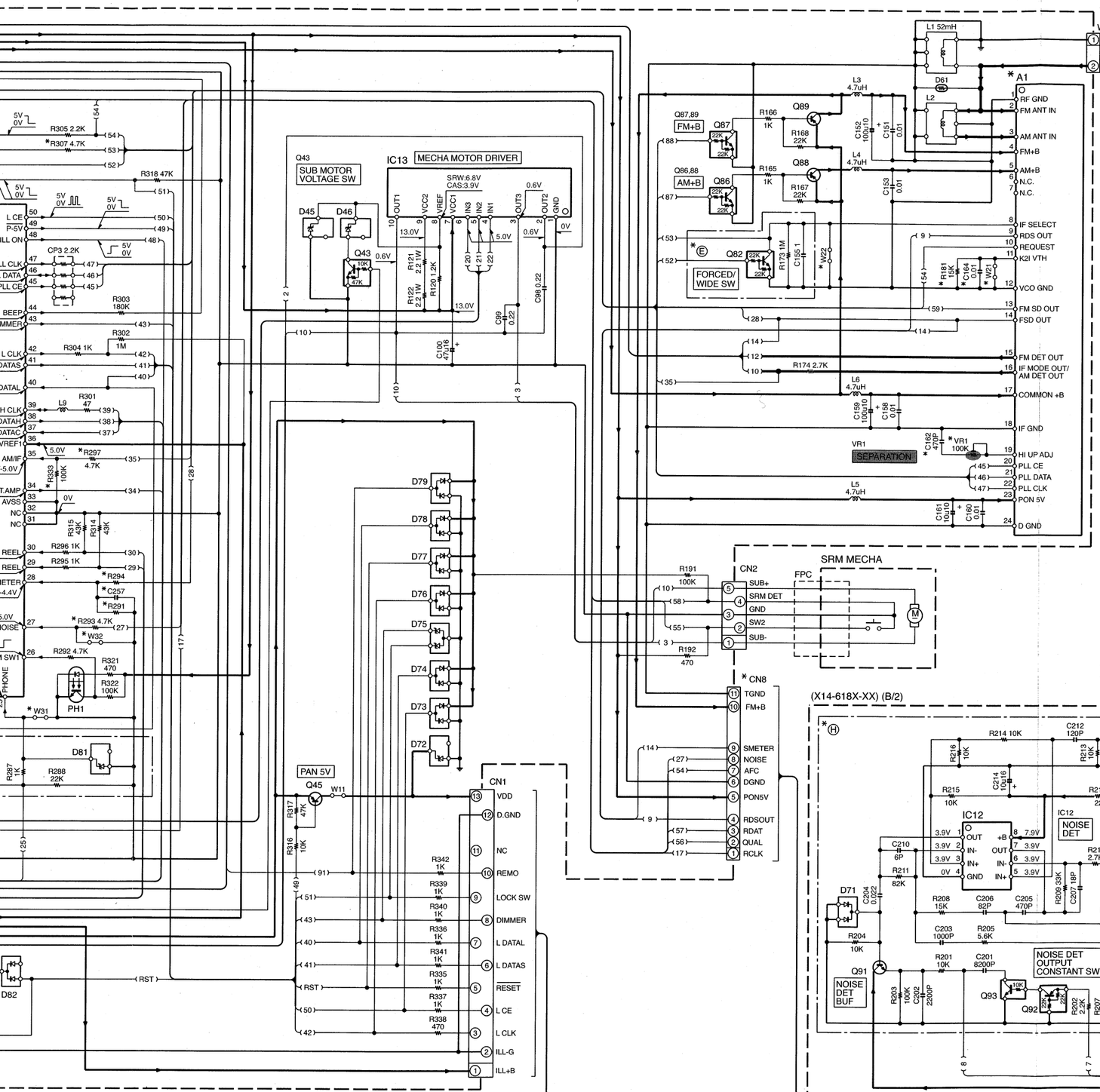
CN8

*A1

WH1 ANT

(X14-618X-XX) (B/2)

(X14-618X-XX) (B/1)
IC1
IC2
IC3
IC4
IC5
IC6
IC7
IC10
IC11
IC13
IC14
IC15



(X14-618X-XX)

MODEL NAME	UNIT No.	Ⓐ Ⓓ	Ⓑ	Ⓒ	Ⓔ Ⓖ Ⓗ	Ⓕ	Ⓘ	IC1	IC6
KRC-PS978R	2-70	YES	YES	YES	YES	NO	YES	UPD784218GC105	TC7662BEOA
KRC-878R	2-71	NO	YES	NO	YES	NO	YES	UPD784218GC105	NO
KRC-778R/RY	2-72	NO	NO	NO	YES	NO	YES	UPD784217GC103	NO
KRC-778RV/RYV	2-73	NO	NO	NO	YES	NO	YES	UPD784217GC103	NO
KRC-PS988R	0-21	YES	YES	YES	YES	NO	YES	UPD784218GC105	TC7662BEOA
KRC-X858	0-11	YES	YES	NO	NO	YES	YES	UPD784217GC103	ICL7660SIBA
KRC-888	0-22	NO	NO	NO	NO	YES	NO	UPD784217GC103	NO
KRC-708	0-12	NO	NO	NO	NO	YES	NO	UPD784217GC103	NO

MODEL NAME	A1	D11-18	D35	D38, 39	C7-10	C81	C95, 162,164	C132	C133	C142	C257
KRC-PS978R	X86-3222-70	NO	NO	YES	YES	C90-2822	YES	47u10	2.2u50	22u25	1000P
KRC-878R	X86-3222-70	NO	NO	YES	YES	C90-5242	YES	100u10	1u50	47u10	1000P
KRC-778R/RY	X86-3222-70	NO	NO	YES	NO	C90-5242	YES	100u10	1u50	NO	1000P
KRC-778RV/RYV	X86-3222-70	NO	NO	YES	NO	C90-5242	YES	100u10	1u50	NO	1000P
KRC-PS988R	X86-3222-70	YES	YES	NO	YES	C90-2822	YES	47u10	2.2u50	22u25	1000P
KRC-X858	X86-3100-10	YES	NO	YES	YES	C90-5242	NO	100u10	1u50	47u10	4700P
KRC-888	X86-3100-10	YES	NO	YES	NO	C90-5243	NO	100u10	1u50	NO	4700P
KRC-708	X86-3100-10	YES	NO	YES	NO	C90-5243	NO	100u10	1u50	NO	4700P

MODEL NAME	R23,24, 37,38	R33,34, 47,48	R104	R113,181, 293,297,307	R251	R252	R253	R254	R255	R256	R259, 333	R279, 327,328
KRC-PS978R	2.2K	NO	YES	YES	YES	NO	NO	YES	NO	YES	NO	YES
KRC-878R	22K	YES	YES	YES	NO	YES	YES	NO	NO	YES	NO	YES
KRC-778R/RY	22K	YES	YES	YES	YES	NO	YES	NO	NO	YES	NO	YES
KRC-778RV/RYV	22K	YES	YES	YES	NO	YES	NO	YES	YES	NO	NO	YES
KRC-PS988R	2.2K	NO	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES
KRC-X858	2.2K	NO	YES	NO	NO	YES	NO	YES	NO	YES	YES	YES
KRC-888	22K	YES	YES	NO	NO	YES	YES	NO	NO	YES	YES	NO
KRC-708	22K	YES	YES	NO	YES	NO	NO	YES	NO	YES	YES	NO

MODEL NAME	R280, 325,326	R291	R294	R329	VR1	W1-4	W5, 6	W7, 8	W21,22, 31,32	W33	CN8, 9	J2
KRC-PS978R	NO	120K	27K	YES	YES	NO	NO	YES	NO	YES	YES	E63-0854(GOLD)
KRC-878R	NO	120K	27K	NO	YES	NO	YES	NO	NO	YES	YES	E63-0853
KRC-778R/RY	NO	120K	27K	NO	YES	YES	NO	YES	NO	YES	YES	E63-0853
KRC-778RV/RYV	NO	120K	27K	NO	YES	YES	NO	YES	NO	YES	YES	E63-0853
KRC-PS988R	NO	120K	27K	YES	YES	NO	NO	YES	NO	NO	YES	E63-0854(GOLD)
KRC-X858	NO	160K	22K	NO	NO	NO	YES	NO	YES	NO	YES	E63-0854(GOLD)
KRC-888	YES	160K	22K	NO	NO	YES	NO	YES	YES	NO	NO	E63-0853
KRC-708	YES	160K	22K	NO	NO	YES	NO	YES	YES	NO	NO	E63-0853

(X14-618X-XX)

IC1 : *
IC2 : TDA7400
IC3 : M5237ML
IC4 : TDA7386
IC5 : TDA7401
IC6 : *
IC7-9,12 : NJM4565M-TE2
IC10 : TC74HC02AF
IC11 : TDA7479D
IC13 : B6238A
IC14 : BR24C01AF or M24C01-WMN6T
IC15 : S-80830ANNP

Q1-6,21,24,25,37,55,57,60,61 : 2SC2412K (2SD601A)
Q18,32,35 : KRC104S (DTC144EK) (UN2213)
Q19,30,36,71 : KRA103S (DTA124EK) (UN2112)
Q20,22 : 2SB1565F(E,F)
Q23,29,45,58,59,62 : 2SA1037K
Q26,28 : 2SB1277(Q,R)
Q27,43,51 : KRC107S (DTC114YK) (UN2214)
Q31 : DTC114EK (UN2211)
Q33 : 2SD1760
Q38,42,56 : 2SB1443
Q39 : DTA123JK
Q40 : DTC124EUA (UN5212)
Q41 : DTC114YUA (UN5214)
Q44,92 : DTA124EUA (UN5112)
Q72,82,86,87 : KRC103S (DTC124EK) (UN2212)
Q88,89 : 2SB1188(Q,R)
Q91 : 2SC4081 (2SD1819A)
Q93 : DTC114TK (UN2215)

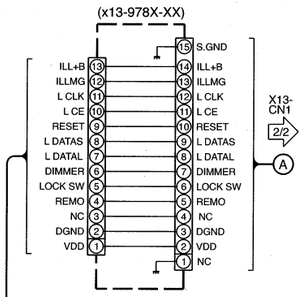
D1 : RD6.8MW
D3,22,72 : MA3062-M
D5 : DAP202K (MA152WA)
D6,7,50,51 : DAP202U (MA142WA)
D11-18,35,38 : MIF60
D21,75 : MA3062WA
D31 : RM10ZLF
D32,39,40,44 : 1SR139-400
D33,36 : MA4056 (N)-M
D37 : MA4062 (N)-M
D41,52,71,82 : DAN202K (MA152WK)
D42 : MA3220-H
D43,56 : MA3056-M
D45 : MA3075-M
D46 : MA3036-H
D53,55 : MA3110-L (HZM11N (B1))
D61 : IMSA-6801
D73,74,76-79 : KDS226 (DA204K)
D81 : MA3047-M (HZM4.7N (B2))

SIGNAL LINE
GND LINE
+ B LINE
– B LINE

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

(X13-978X-XX)

MODEL NAME	UNIT No.
KRC-PS978R	0-10
KRC-X858	
KRC-778R/RY	0-11
KRC-778RV/RYV	
KRC-PS988R	
KRC-878R	
KRC-888	
KRC-708	



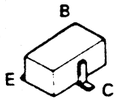
KRC-PS987R/PS988R (1/2)
KRC-878R/858/888/708 (1/2)
KRC-778R/RY/RV/RYV (1/2)

KRC-778R/RV/RY/RYV,878R,PS978R

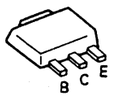
KENWOOD

AE | AF | AG | AH | AI | AJ | AK | AL | AM | AN

DTA114EK KRC103S
DTA123JK UN5214
DTA124EK 2SC2412K
DTC114EK 2SD1819A
DTC114TK 2SD2114K
DTC114YK
DTC114YUA
DTC124EK
DTC144EK



2SB1188



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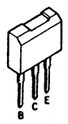
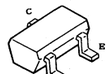
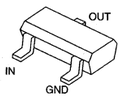
2SB1443



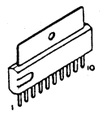
2SA1037K
2SC4081



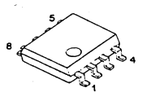
DTA124EUA
DTC124EUA
KRC104S



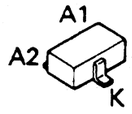
BA6238A



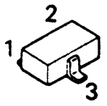
NJM4565M-TE2



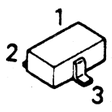
DAN202K



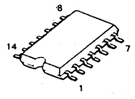
DAP202K
DAP202U
DA204K



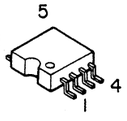
MA142WA
UN5212



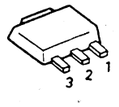
TC74HC02AF



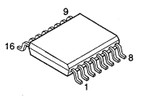
BR24C01AF



M5237ML



TDA7479D



(X13-972X-XX)

MODEL NAME	UNIT No.	ED1	Ⓐ
KRC-X858 KRC-708 KRC-888 KRC-778R KRC-778RY	0-10	B38-1034	NO
KRC-PS988R KRC-PS978R KRC-878R	0-21	B38-1035	YES
KRC778RV KRC778RVY	2-71	B38-1036	NO

IC1 : LC75808W
IC2 : LC75878W
IC3 : RS-171

Q1,2 : DTA114EK or UN2111
Q3,4 : 2SD2114K
Q5-7 : KRC107S
Q8 : 2SC2412K or 2SD601A

D1 : MA3091-M
D2-4 : B30-1571-05
D5,6 : B30-1562-05

ED1 : *

GND LINE
+B LINE

(X13-972X-XX)

MODEL NAME	UNIT No.	ED1	Ⓐ
KRC-X858 KRC-708 KRC-888 KRC-778R KRC-778RY	0-10	B38-1034	NO
KRC-PS888R KRC-PS978R KRC-878R	0-21	B38-1035	YES
KRC778RV KRC778RVY	2-71	B38-1036	NO

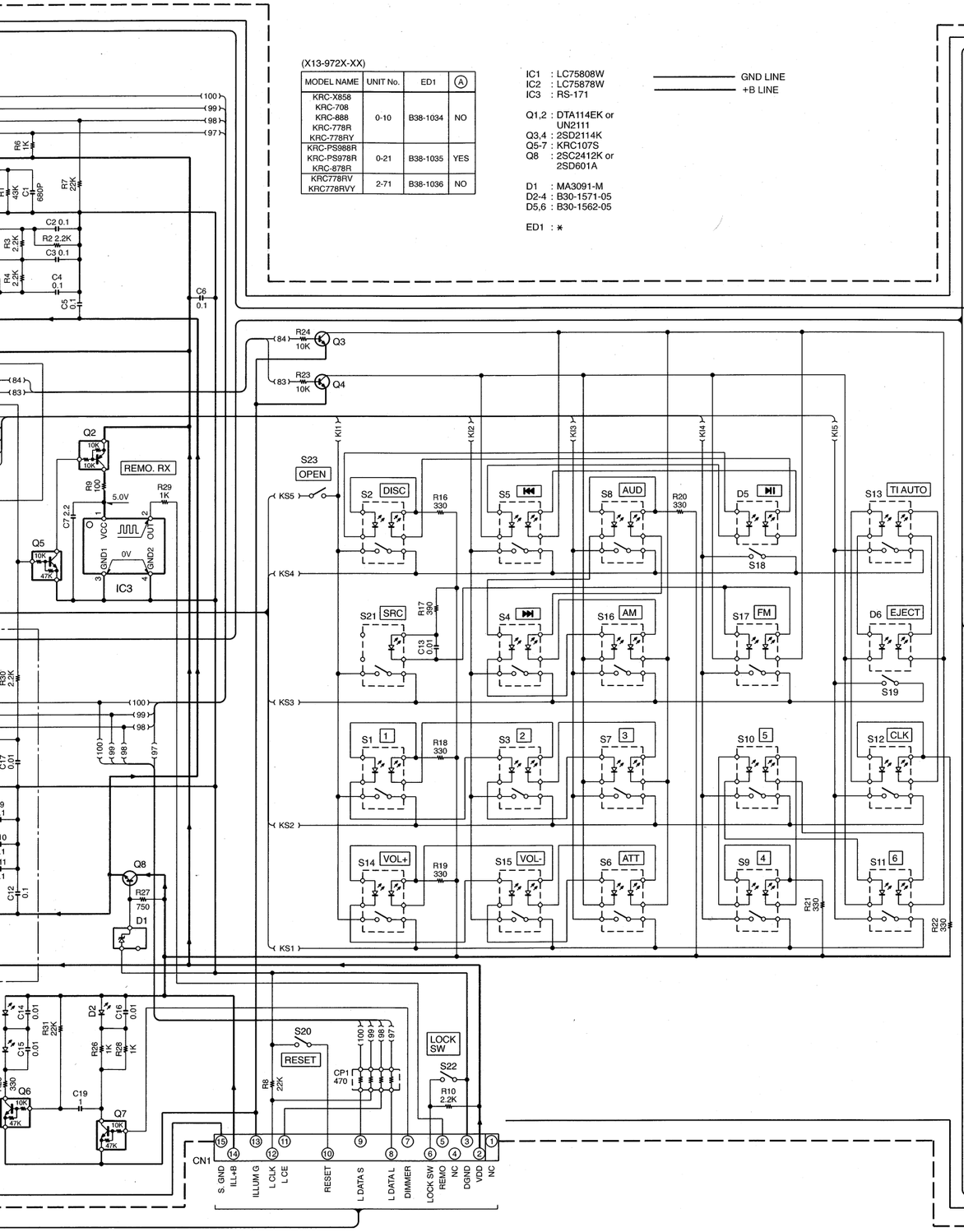
IC1 : LC75808W
IC2 : LC75878W
IC3 : RS-171

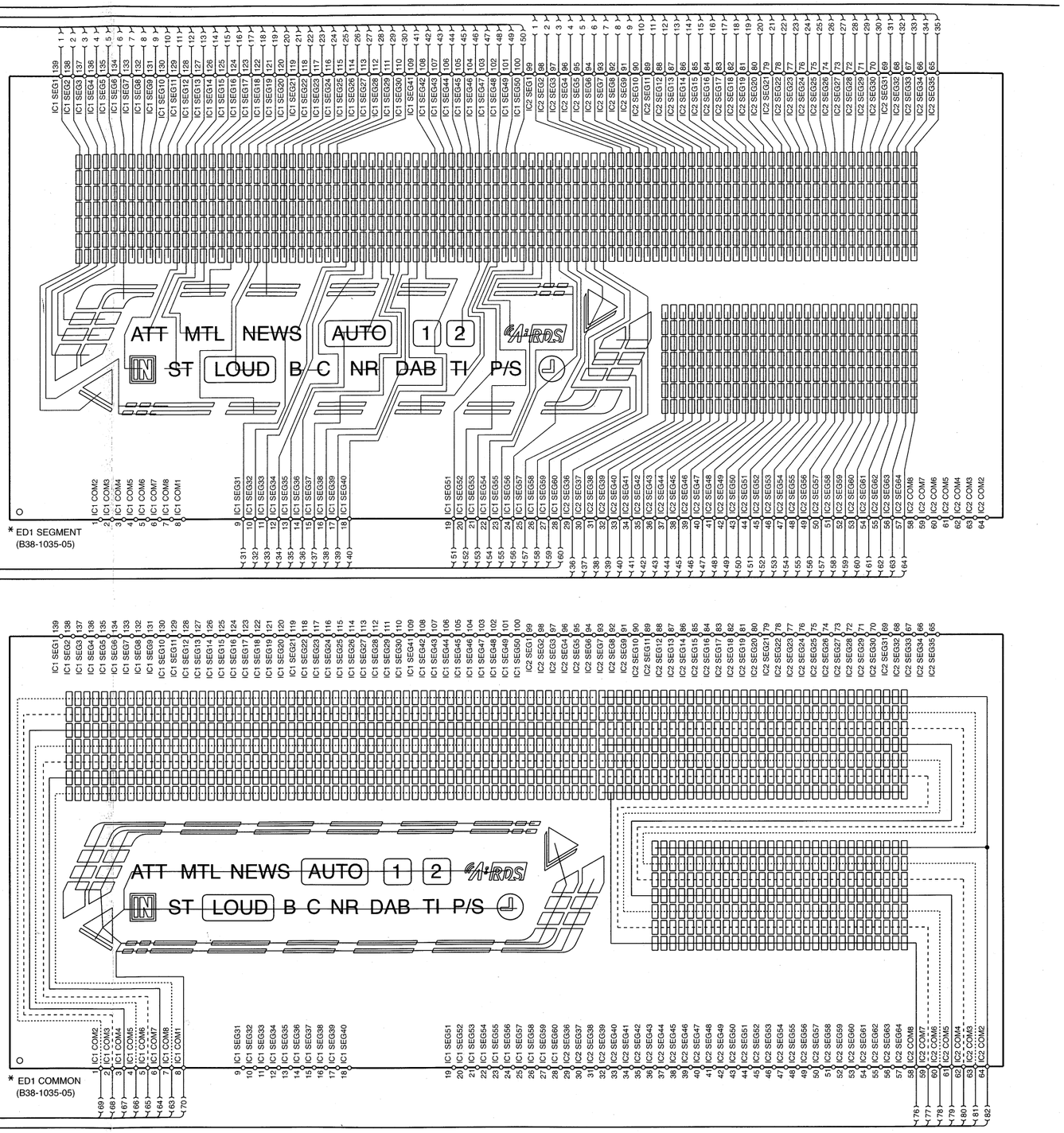
Q1,2 : DTA114EK or UN2111
Q3,4 : 2SD2114K
Q5-7 : KRC107S
Q8 : 2SC2412K or 2SD601A

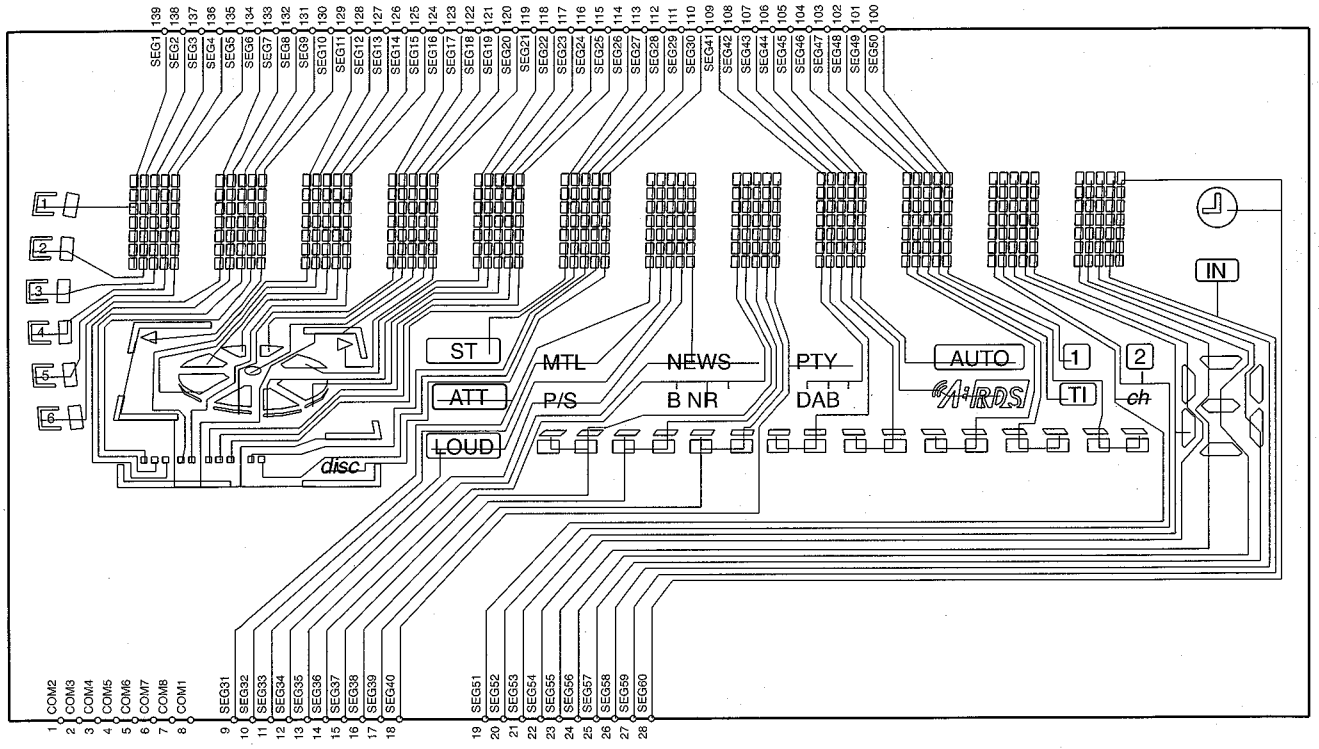
D1 : MA3091-M
D2-4 : B30-1571-05
D5,6 : B30-1562-05

ED1 : ✱

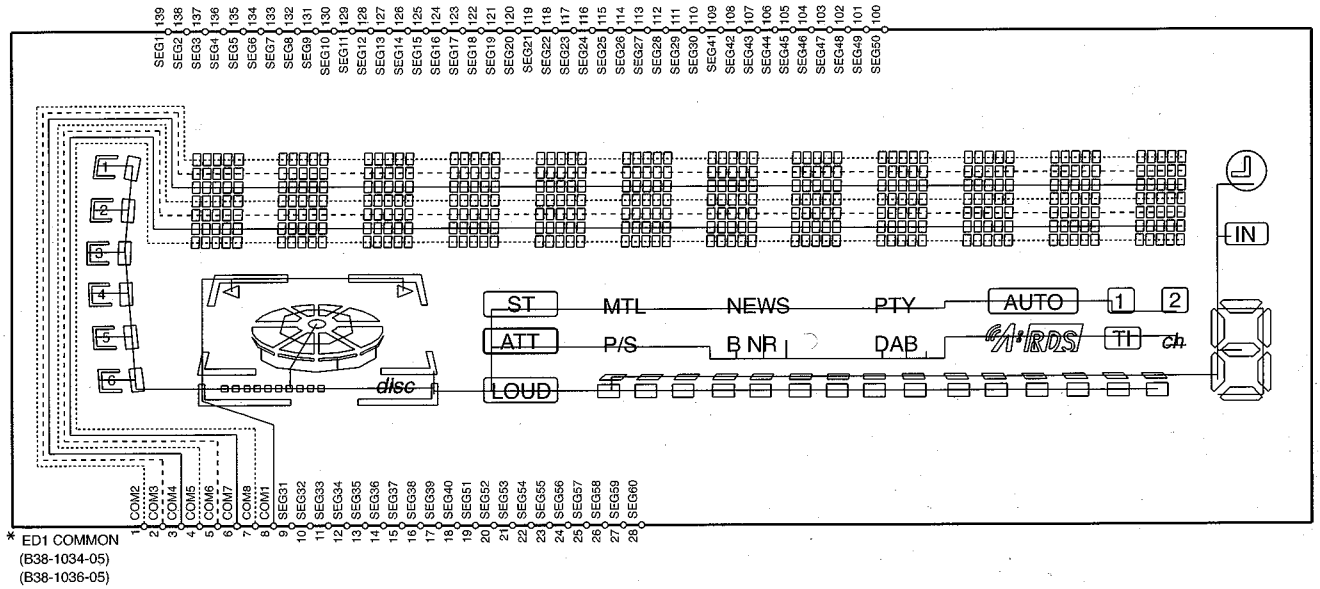
GND LINE
+B LINE







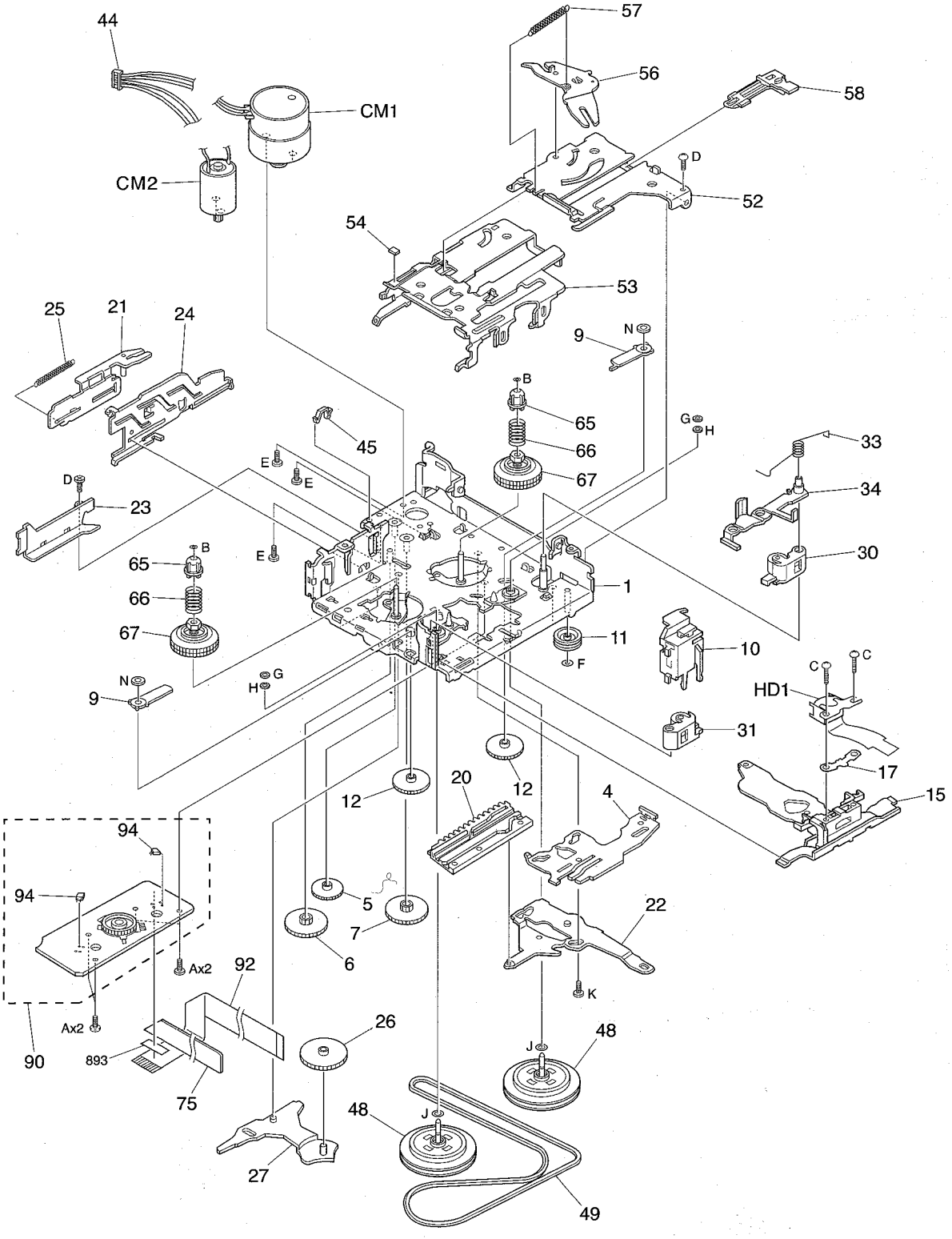
* ED1 SEGMENT
(B38-1034-05)
(B38-1036-05)



* ED1 COMMON
(B38-1034-05)
(B38-1036-05)

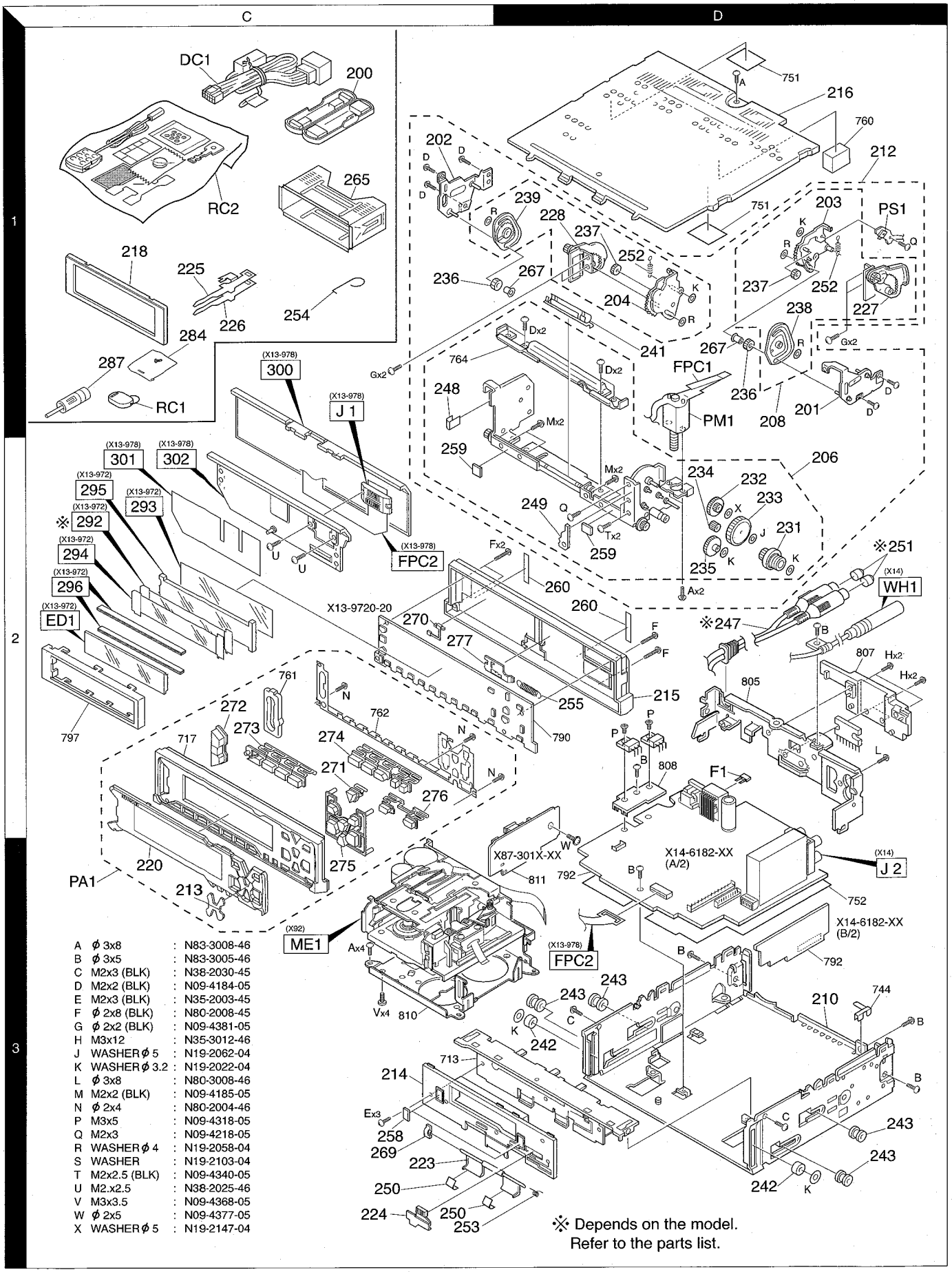
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

EXPLODED VIEW (MECHANISM)



Parts with exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)



Parts with exploded numbers larger than 700 are not supplied.

KRC-778R/RV/RY/RYV,878R,PS978R

PARTS LIST

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref.No.	Add	New	Parts No.	Description	Destination
KRC-778R/RV/RY/RYV, 878R, PS978R					
200	1C		A02-1489-03	PLASTIC CABINET ASSY	
201	1D		A10-4315-04	CHASSIS CALKING ASSY	
202	1C		A10-4317-04	CHASSIS CALKING ASSY	
203	1D		A10-4319-04	CHASSIS CALKING ASSY	
204	1D		A10-4321-04	CHASSIS CALKING ASSY	
206	2D		A10-4534-23	CHASSIS ASSY	
208	1D		A10-4674-02	CHASSIS ASSY	
209	1D		A10-4676-02	CHASSIS ASSY	
210	3D	✻	A10-4661-03	CHASSIS ASSY	
212	1D		A10-4671-02	CHASSIS ASSY	
		✻			
213	3C	✻	A21-4010-03	DRESSING PANEL	E1E2E3
213	3C	✻	A21-4010-03	DRESSING PANEL	E4E5
213	3C	✻	A21-4011-03	DRESSING PANEL	E
214	3C		A22-2294-02	SUB PANEL	
215	2D		A46-1652-01	REAR COVER	
216	1D		A52-0741-12	TOP PLATE	
PA1	3C	✻	A64-1854-02	PANEL ASSY	E
PA1	3C	✻	A64-1855-02	PANEL ASSY	E1
PA1	3C	✻	A64-1856-02	PANEL ASSY	E2E4
PA1	3C	✻	A64-1952-02	PANEL ASSY	E3E5
RC1	1C		A70-0886-15	REMOTE CONTROLLER ASSY(MASK)	
RC2	1C		A70-0874-05	REMOTE CONTROLLER ASSY(RC700	EE1
218	1C		B07-2139-03	ESCUTCHEON ASSY	E1E2E3
218	1C		B07-2139-03	ESCUTCHEON ASSY	E4E5
218	1C		B07-2146-03	ESCUTCHEON ASSY	E
220	3C	✻	B10-3095-01	FRONT GLASS	E
220	3C	✻	B10-3096-01	FRONT GLASS	E1
220	3C	✻	B10-3097-01	FRONT GLASS	E2E4
220	3C	✻	B10-3098-01	FRONT GLASS	E3E5
-			B46-0100-50	WARRANTY CARD	EE1E2
-			B46-0100-50	WARRANTY CARD	E3
-			B46-0632-04	ID CARD	
-			B58-1278-04	CAUTION CARD	EE1E2
-			B58-1278-04	CAUTION CARD	E3
-			B58-1283-04	CAUTION CARD	E4E5
-			B58-1309-04	CAUTION CARD	
-			B58-1321-14	CAUTION CARD	E1E2E3
-			B58-1321-14	CAUTION CARD	E4E5
-		✻	B59-0742-00	SUB-INSTRUCTION MANUAL	
-		✻	B64-1612-00	INST. MANUAL (ENGLISH)	
-		✻	B64-1613-00	INST. MANUAL (FRE.GER.DUT)	EE1E2
-		✻	B64-1613-00	INST. MANUAL (FRE.GER.DUT)	E3
-		✻	B64-1614-00	INST. MANUAL (ITA.SPA.POR)	EE1E2
-		✻	B64-1614-00	INST. MANUAL (ITA.SPA.POR)	E3
-		✻	B64-1615-00	INST. MANUAL (RUS.POL.CZE)	E4E5
-		✻	B64-1616-00	INST. MANUAL (HUN.CRO.)	E4E5
223	3C		D10-4299-03	ARM	
224	3C		D10-4300-24	LEVER	
225	1C		D10-4302-14	LEVER	
226	1C		D10-4301-14	LEVER	
227	1D		D10-4448-03	ARM ASSY	
228	1D	✻	D10-4451-03	ARM ASSY	
231	2D		D13-1302-64	GEAR ASSY	
232	2D		D13-1306-24	GEAR	
233	2D		D13-1403-03	GEAR	
234	2D		D13-1404-04	GEAR	
235	2D		D13-1453-14	GEAR ASSY	
236	1D		D13-1312-34	GEAR	
237	2D		D13-1313-04	GEAR	
238	1D		D13-1455-13	GEAR ASSY	
239	1D		D13-1456-13	GEAR ASSY	
241	1D		D14-0678-04	ROLLER ASSY	
242	3D		D14-0716-14	ROLLER	
243	3D		D14-0723-04	ROLLER	
247	1D	✻	E30-4800-05	CORD WITH PINPLUG	E
⚠ DC1	1C	✻	E30-4788-05	DC CORD	EE1E2
⚠ DC1	1C	✻	E30-4788-05	DC CORD	E4
⚠ DC1	1C		E30-4789-05	DC CORD	E3E5
248	1D		F09-1244-04	SHEET	
249	2D	✻	F09-1644-04	SHEET	
250	3C		F09-1292-04	SHEET	
251	2D		F29-0049-05	INSULATING COVER	E
⚠ F1	2D		F52-0006-05	FUSE(MINI BLADE TYPE)	
⚠ F1	2D		F52-0011-05	FUSE(MINI BLADE TYPE)	
252	1D		G01-2818-24	EXTENSION SPRING	
253	3C		G01-2920-14	TORSION COIL SPRING	
254	1C		G01-2924-04	TORSION COIL SPRING	
255	2D		G01-2984-04	EXTENSION SPRING	
258	3C		G11-1797-04	CUSHION	
259	2D		G11-1850-04	CUSHION	
260	2D		G16-1147-04	SHEET	
-		✻	H10-4707-02	POLYSTYRENE FOAMED FIXTURE	
-			H21-1123-04	PROTECTION SHEET	
-			H25-0329-04	PROTECTION BAG (280X450)	E4E5
-			H25-0337-04	PROTECTION BAG (180X300)	
-			H25-1108-04	PROTECTION BAG (100X300)	
-			H25-1111-04	PROTECTION BAG (280X450)	EE1E2
-			H25-1111-04	PROTECTION BAG (280X450)	E3
-		✻	H54-1668-03	ITEM CARTON CASE	E
-		✻	H54-1669-03	ITEM CARTON CASE	E1
-		✻	H54-1670-03	ITEM CARTON CASE	E2
-		✻	H54-1671-03	ITEM CARTON CASE	E3
-		✻	H54-1672-03	ITEM CARTON CASE	E4
-		✻	H54-1673-03	ITEM CARTON CASE	E5
265	1C		J21-9491-03	MOUNTING HARDWARE ASSY	
267	1D		J31-1035-24	COLLAR	
269	3C		J90-0923-14	GUIDE	
FPC1	1D		J84-0062-23	FLEXIBLE PRINTED WIRING BOARD	
270	3C		K24-3540-03	KNOB (OPEN)	
271	2C		K24-3541-04	KNOB (SRC)	
272	2C		K25-1095-03	KNOB (VOL)	
273	2C		K25-1096-03	KNOB (P1-3)	
274	2C		K25-1097-03	KNOB (P4-6)	
275	2C		K25-1098-03	KNOB (FM/AM)	
276	2C		K25-1099-03	KNOB (CLK)	

E: Europe **K**: North America **M**: Other Areas

E : KRC-PS978R **E3** : KRC-778RV
E1 : KRC-878R **E4** : KRC-778RY
E2 : KRC-778R **E5** : KRC-778RYV

⚠ indicates safety critical components.

KRC-778R/RV/RY/RYV,878R,PS978R

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
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Teile ohne **Parts No.** werden nicht geliefert.

Ref.No.	Add	New	Parts No.	Description	Destination
277	2C		K29-7010-04	KNOB ASSY (LOCK)	
284	1C		N99-1683-05	SCREW SET	
A	3C		N83-3008-46	PAN HEAD TAPTITE SCREW	
B	3D		N83-3005-46	PAN HEAD TAPTITE SCREW	
C	3C		N38-2030-45	PAN HEAD MACHIN SCREW	
D	1D		N09-4184-05	MACHINE SCREW (M2X2)	
E	3C		N09-4384-05	BINDING HEAD TAPTITE SCREW	
F	2D		N80-2008-45	PAN HEAD TAPTITE SCREW	
G	1C		N09-4381-05	MACHINE SCREW (M2X2)	
J	2D		N19-2062-04	FLAT WASHER	
K	2D		N19-2022-04	FLAT WASHER	
M	1D		N09-4185-05	MACHINE SCREW (M2X2)	
N	2C		N80-2004-46	PAN HEAD TAPTITE SCREW	
Q	1D		N09-4218-05	MACHINE SCREW (M2X3)	
R	1D		N19-2058-04	FLAT WASHER	
S	1D		N19-2103-04	FLAT WASHER	
T	2D		N09-4340-05	MACHINE SCREW (M2X2.5)	
X	2D		N19-2147-04	FLAT WASHER	
PS1	1D		S68-0829-05	PUSH SWITCH	
287	1C		T90-0523-05	ANTENNA ADAPTOR	
PM1	1D		T42-0752-34	MOTOR ASSY	
SWITCH UNIT (X13-972X-XX)					
292	2C	*	B11-1304-04	COLOR FILTER	E3E5
293	2C		B11-0970-04	REFLECTION SHEET	
294	2C	*	B11-0990-04	OPTICAL DIFFUSER	E3E5
294	2C	*	B11-1301-04	OPTICAL DIFFUSER	EE1E2
294	2C	*	B11-1301-04	OPTICAL DIFFUSER	E4
295	2C	*	B19-2017-03	LIGHTING BOARD	
D2 -4			B30-1571-05	LED(WHITE)	
D5 ,6			B30-1562-05	LED	
ED1	2C		B38-1034-05	LIQUID CRYSTAL	E2E4
ED1	2C	*	B38-1035-05	LIQUID CRYSTAL	EE1
ED1	2C		B38-1036-05	LIQUID CRYSTAL	E3E5
C1			CK73FB1H681K	CHIP C 680PF K	
C2 -6			CK73FB1C104K	CHIP C 0.10UF K	
C7			CK73EB1C225K	CHIP C 2.2UF K	
C8			CK73FB1H681K	CHIP C 680PF K	EE1
C9 -12			CK73FB1C104K	CHIP C 0.10UF K	EE1
C13 -16			CK73FB1H103K	CHIP C 0.010UF K	E2E3E4
C13 -16			CK73FB1H103K	CHIP C 0.010UF K	E5
C13 -17			CK73FB1H103K	CHIP C 0.010UF K	EE1
C19			CK73EB1C105K	CHIP C 1.0UF K	
296	2C		E29-1596-04	CONDUCTIVE RUBBER	
CN1			E59-0833-05	RECTANGULAR PLUG	
CP1			R90-1016-05	MULTI-COMP 470 X4	
R1			RK73FB2A433J	CHIP R 43K J 1/10W	
R2 -5			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R6			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R7 ,8			RK73FB2A223J	CHIP R 22K J 1/10W	
R9			RK73FB2A101J	CHIP R 100 J 1/10W	
R10			RK73FB2A222J	CHIP R 2.2K J 1/10W	

Ref.No.	Add	New	Parts No.	Description	Destination
R11			RK73FB2A433J	CHIP R 43KJ 1/10W	EE1
R12 -15			RK73FB2A222J	CHIP R 2.2K J 1/10W	EE1
R16			RK73EB2B331J	CHIP R 330J 1/8W	
R17			RK73EB2B391J	CHIP R 390 J 1/8W	
R18 -22			RK73EB2B331J	CHIP R 330 J 1/8W	
R23 ,24			RK73FB2A103J	CHIP R 10K J 1/10W	
R25			RK73EB2B331J	CHIP R 330 J 1/8W	
R26			RK73EB2B122J	CHIP R 1.2K J 1/8W	
R27			RK73FB2A751J	CHIP R 750 J 1/10W	
R28			RK73EB2B122J	CHIP R 1.2K J 1/8W	
R29			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R30			RK73FB2A222J	CHIP R 2.2K J 1/10W	EE1
R31			RK73FB2A223J	CHIP R 22K J 1/10W	
S1 -13			S70-0856-05	TACT SWITCH	
S14 -17			S70-0860-05	TACT SWITCH	
S18 -20			S70-0851-05	TACT SWITCH	
S21			S70-0857-05	TACT SWITCH	
S22			S68-0822-05	PUSH SWITCH	
S23			S70-0864-05	TACT SWITCH	
D1			MA3091-M	ZENER DIODE	
IC1			LC75808W	MOS-IC	
IC2		*	LC75878W	MOS-IC	EE1
IC3			RS-171	ANALOGUE IC	
Q1 ,2			DTA114EK	DIGITAL TRANSISTOR	
Q1 ,2			UN2111	DIGITAL TRANSISTOR	
Q3 ,4			2SD2114K	TRANSISTOR	
Q5			DTC114YK	DIGITAL TRANSISTOR	
Q5			KRC107S	TRANSISTOR	
Q5			UN2214	DIGITAL TRANSISTOR	
Q6 ,7			DTC114YK	DIGITAL TRANSISTOR	
Q6 ,7			KRC107S	TRANSISTOR	
Q6 ,7			UN2214	DIGITAL TRANSISTOR	
Q8			2SC2412K	TRANSISTOR	
Q8			2SD601A	TRANSISTOR	
SUB-CIRCUIT UNIT (X13-9780-1X)					
300	2C		B03-3056-12	DRESSING PLATE	E
300	2C		B03-3057-02	DRESSING PLATE	E1E2E3
300	2C		B03-3057-02	DRESSING PLATE	E4E5
J1			E58-0895-05	RECTANGULAR RECEPTACLE	
301	2C	*	G16-1146-04	SHEET	
302	2C	*	J21-9540-04	MOUNTING HARDWARE ASSY	
FPC2	2C		J84-0106-02	FLEXIBLE PRINTED WIRING BOARD	
U	2C		N38-2025-46	PAN HEAD MACHIN SCREW	
SYNTHESIZER UNIT (X14-6182-7X)					
C1 ,2		*	C92-0685-05	ELECTROLYTIC CAPACITOR	
C3			C92-0092-05	CHIP C 47UF 6.3WV	
C4			CK73FB1H103K	CHIP C 0.010UF K	
C5 ,6			C90-2525-05	NP-ELECT 2.2UF 35WV	
C7 -10			CK73EB1C225K	CHIP C 2.2UF K	EE1
C11 -18			CK73FB1C274K	CHIP C 0.27UF K	EE1
C19 -22			CK73FB1C104K	CHIP C 0.10UF K	EE1

E: Europe **K**: North America **M**: Other Areas

E : KRC-PS978R **E3** : KRC-778RV
E1 : KRC-878R **E4** : KRC-778RY
E2 : KRC-778R **E5** : KRC-778RYV

⚠ indicates safety critical components.

KRC-778R/RV/RY/RYV,878R,PS978R

PARTS LIST

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(X14-6182-7X)

Ref.No.	Add	New	Parts No.	Description			Destination
C25 -30			C92-0671-05	ELECTRO	10UF	16WV	E
C27 -30			C92-0671-05	ELECTRO	10UF	16WV	E1E2E3
C27 -30			C92-0671-05	ELECTRO	10UF	16WV	E4E5
C31 -34			C90-5297-05	NP-ELECT	0.22UF	50WV	
C43 ,44			C90-2597-05	ELECTRO	10UF	16WV	E
C47			C90-2597-05	ELECTRO	10UF	16WV	E
C48			C90-2554-05	ELECTRO	10UF	16WV	E
C51 ,52			C90-2597-05	ELECTRO	10UF	16WV	E
C53 -56			CK73FB1H102K	CHIP C	1000PF	K	E1E2E3
C53 -56			CK73FB1H102K	CHIP C	1000PF	K	E4E5
C53 -58			CK73FB1H102K	CHIP C	1000PF	K	E
C59 -61			CK73FB1H103K	CHIP C	0.010UF	K	E
C59 ,60			CK73FB1H103K	CHIP C	0.010UF	K	E1E2E3
C59 ,60			CK73FB1H103K	CHIP C	0.010UF	K	E4E5
C81			C90-2822-05	ELECTRO	3900UF	16WV	E
C81			C90-5242-05	ELECTRO	3300UF	16WV	E1E2E3
C81			C90-5242-05	ELECTRO	3300UF	16WV	E4E5
C82			C90-2926-05	ELECTRO	220UF	16WV	
C83			CK73FB1H103K	CHIP C	0.010UF	K	
C84			C90-2594-05	ELECTRO	10UF	10WV	
C85			CE04CW0J101M	ELECTRO	100UF	6.3WV	
C86			CK73EB1C105K	CHIP C	1.0UF	K	
C87			CE04CW1A221M	ELECTRO	220UF	10WV	
C88			CK73FB1H102K	CHIP C	1000PF	K	
C89			CK73FB1H103K	CHIP C	0.010UF	K	
C90			C90-2598-05	ELECTRO	3.3UF	25WV	
C91			CK73FB1E683K	CHIP C	0.068UF	K	
C92			C90-2602-05	ELECTRO	0.10UF	50WV	
C93			CK73FB1H103K	CHIP C	0.010UF	K	
C94			C92-0686-05	ELECTRO	1UF	50WV	
C95			CK73FB1H103K	CHIP C	0.010UF	K	
C98 ,99			CK73FB1C224K	CHIP C	0.22UF	K	
C100			CE04CW1C470M	ELECTRO	47UF	16WV	
C111			C90-2558-05	ELECTRO	1.0UF	50WV	
C112			C90-2564-05	ELECTRO	100UF	16WV	
C113			C90-2935-05	ELECTRO	1.0UF	50WV	
C114			C90-2608-05	ELECTRO	1.0UF	50WV	
C115			C90-2595-05	ELECTRO	4.7UF	16WV	E
C116			C90-2962-05	ELECTRO	100UF	16WV	E
C117-120			CK73EB1C225K	CHIP C	2.2UF	K	E
C121			CE04CW1C330M	ELECTRO	33UF	16WV	E
C122			CK73FB1H223K	CHIP C	0.022UF	K	E
C123			C90-2597-05	ELECTRO	10UF	16WV	E
C124			CK73FB1H103K	CHIP C	0.010UF	K	E
C125			C90-2597-05	ELECTRO	10UF	16WV	E
C126			CK73EB1C225K	CHIP C	2.2UF	K	E
C131			CK73FB1H103K	CHIP C	0.010UF	K	
C132			CE04CW1A101M	ELECTRO	100UF	10WV	E1E2E3
C132			CE04CW1A101M	ELECTRO	100UF	10WV	E4E5
C132			CE04CW1A470M	ELECTRO	47UF	10WV	E
C133			C92-0686-05	ELECTRO	1UF	50WV	E1E2E3
C133			C92-0686-05	ELECTRO	1UF	50WV	E4E5
C133			C92-0687-05	ELECTRO	2.2UF	50WV	E
C135			CK73EB1C474K	CHIP C	0.47UF	K	
C136			CC73FCH1H121J	CHIP C	120PF	J	
C137			CK73FB1C104K	CHIP C	0.10UF	K	
C138			CK73FB1C823K	CHIP C	0.082UF	K	
C142			CE04CW1A470M	ELECTRO	47UF	10WV	E1
C142			CE04CW1E220M	ELECTRO	22UF	25WV	E
C143			C92-0686-05	ELECTRO	1UF	50WV	EE1
C151			CK73FB1H103K	CHIP C	0.010UF	K	
C152			CE04CW1A101M	ELECTRO	100UF	10WV	
C153			CK73FB1H103K	CHIP C	0.010UF	K	
C155			CK73EB1C105K	CHIP C	1.0UF	K	
C156			CK73FB1H183K	CHIP C	0.018UF	K	
C157			CK73FB1E273K	CHIP C	0.027UF	K	
C158			CK73FB1H103K	CHIP C	0.010UF	K	
C159			CE04CW1A101M	ELECTRO	100UF	10WV	
C160			CK73FB1H103K	CHIP C	0.010UF	K	
C161			C90-2594-05	ELECTRO	10UF	10WV	
C162			CK73FB1H471K	CHIP C	470PF	K	
C164			CK73FB1H103K	CHIP C	0.010UF	K	
C190			C90-2597-05	ELECTRO	10UF	16WV	
C191			CK73FB1H103K	CHIP C	0.010UF	K	
C201			CK73FB1H822K	CHIP C	8200PF	K	
C202			CK73FB1H222K	CHIP C	2200PF	K	
C203			CK73FB1H102K	CHIP C	1000PF	K	
C204			CK73FB1H223K	CHIP C	0.022UF	K	
C205			CK73FB1H471K	CHIP C	470PF	K	
C206			CC73FCH1H820J	CHIP C	82PF	J	
C207			CC73FCH1H180J	CHIP C	18PF	J	
C208,209			CK73FB1H122K	CHIP C	1200PF	K	
C210			CC73FCH1H060D	CHIP C	6.0PF	D	
C211			CK73FB1H471K	CHIP C	470PF	K	
C212			CC73FCH1H121J	CHIP C	120PF	J	
C214			C90-2597-05	ELECTRO	10UF	16WV	
C221			CC73FCH1H100D	CHIP C	10PF	D	
C222			C90-2592-05	ELECTRO	10UF	6.3WV	
C223			CC73FCH1H100D	CHIP C	10PF	D	
C224			CC73FCH1H271J	CHIP C	270PF	J	
C225			CK73FB1H103K	CHIP C	0.010UF	K	
C226			C90-2592-05	ELECTRO	10UF	6.3WV	
C251			CK73FB1H103K	CHIP C	0.010UF	K	
C252			CE04CW0J470M	ELECTRO	47UF	6.3WV	
C253			CC73FCH1H240J	CHIP C	24PF	J	
C254			CC73FCH1H270J	CHIP C	27PF	J	
C256			CK73EB1C105K	CHIP C	1.0UF	K	
C257			CK73FB1H102K	CHIP C	1000PF	K	
CN1			E40-9557-05	FLAT CABLE CONNECTOR			
CN2			E40-5029-05	FLAT CABLE CONNECTOR			
CN3			E40-9666-05	PIN ASSY			
CN4			E40-9665-05	PIN ASSY			
CN6			E40-3239-05	PIN ASSY			E
CN8			E40-9080-05	PIN ASSY			
CN9			E40-9099-05	SOCKET FOR PIN ASSY			
⚠ J1			E58-0836-05	RECTANGULAR RECEPTACLE			
J2			E63-0853-05	PIN JACK			E1E2E3
J2			E63-0853-05	PIN JACK			E4E5
J2			E63-0854-05	PIN JACK			E

E: Europe **K**: North America **M**: Other Areas

E : KRC-PS978R **E3** : KRC-778RV
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(X14-6182-7X)

Ref.No.	Add	New	Parts No.	Description	Destination
J3			E56-0826-05	CYLINDRICAL RECEPTACLE	
WH1			E30-4653-05	CORD WITH PLUG	
WH1		✻	E30-4803-05	CORD WITH PLUG	
L1			L33-1039-05	LINE FILTER COIL	
L2			L39-1027-05	TRAP COIL	
L3 -8			L40-4795-34	SMALL FIXED INDUCTOR	
L9			L92-0075-05	CHIP FERRITE	
X1			L78-0683-05	RESONATOR	
X2			L77-2738-05	CRYSTAL RESONATOR	
X3			L77-2002-05	CRYSTAL RESONATOR	
B	2D		N83-3005-46	PAN HEAD TAPTITE SCREW	
H	2D		N35-3012-46	BINDING HEAD MACHINE SCREW	
L	2D		N80-3008-46	PAN HEAD TAPTITE SCREW	
P	2D		N09-4318-05	MACHINE SCREW (M3X5)	
CP1			R90-0724-05	MULTI-COMP 1K X4	
CP3			R90-0722-05	MULTI-COMP 2.2K X4	
CP4 ,5			R90-0719-05	MULTI-COMP 4.7K X2	
CP6			R90-0718-05	MULTI-COMP 4.7K X4	
CP9			R90-0737-05	MULTI-COMP 100K X2	
CP10			R90-0718-05	MULTI-COMP 4.7K X4	
R1 ,2			RK73EB2B100J	CHIP R 10 J 1/8W	
R3			RK73EB2B4R7J	CHIP R 4.7 J 1/8W	
R5 -10			RK73FB2A361J	CHIP R 360 J 1/10W	E
R7 -10			RK73FB2A361J	CHIP R 360 J 1/10W	E1E2E3
R7 -10			RK73FB2A361J	CHIP R 360 J 1/10W	E4E5
R11 -14			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R21 ,22			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R23 ,24			RK73FB2A222J	CHIP R 2.2K J 1/10W	E
R23 ,24			RK73FB2A223J	CHIP R 22K J 1/10W	E1E2E3
R23 ,24			RK73FB2A223J	CHIP R 22K J 1/10W	E4E5
R27 ,28			RK73FB2A223J	CHIP R 22K J 1/10W	E
R29 ,30			RK73FB2A103J	CHIP R 10K J 1/10W	E
R31 ,32			RK73FB2A820J	CHIP R 82 J 1/10W	E
R33 ,34			RK73FB2A221J	CHIP R 220 J 1/10W	E1E2E3
R33 ,34			RK73FB2A221J	CHIP R 220 J 1/10W	E4E5
R35 ,36			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R37 ,38			RK73FB2A222J	CHIP R 2.2K J 1/10W	E
R37 ,38			RK73FB2A223J	CHIP R 22K J 1/10W	E1E2E3
R37 ,38			RK73FB2A223J	CHIP R 22K J 1/10W	E4E5
R41 ,42			RK73FB2A223J	CHIP R 22K J 1/10W	E
R43 ,44			RK73FB2A103J	CHIP R 10K J 1/10W	E
R45 ,46			RK73FB2A820J	CHIP R 82 J 1/10W	E
R47 ,48			RK73FB2A221J	CHIP R 220 J 1/10W	E1E2E3
R47 ,48			RK73FB2A221J	CHIP R 220 J 1/10W	E4E5
R49 ,50			RK73GB1J472J	CHIP R 4.7K J 1/16W	E
R51 ,52			RK73FB2A222J	CHIP R 2.2K J 1/10W	E
R55 ,56			RK73FB2A223J	CHIP R 22K J 1/10W	E
R57 ,58			RK73FB2A103J	CHIP R 10K J 1/10W	E
R59 ,60			RK73FB2A820J	CHIP R 82 J 1/10W	E
R71			RK73EB2B101J	CHIP R 100 J 1/8W	
R72			RK73EB2B222J	CHIP R 2.2K J 1/8W	
R73			RK73EB2B362J	CHIP R 3.6K J 1/8W	
R74 -76			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R77			RK73EB2B101J	CHIP R 100 J 1/8W	
R78			RK73EB2B470J	CHIP R 47 J 1/8W	
R79 -83			RK73FB2A104J	CHIP R 100K J 1/10W	
R87 ,88			R92-3052-05	METAL GLAZE RESISTOR	
R89			R92-3032-05	CHIP R 4.3K D 1/10W	
R90			RK73FB2A153J	CHIP R 15K J 1/10W	
R92			RK73EB2B221J	CHIP R 220 J 1/8W	
R93			RK73FB2A223J	CHIP R 22K J 1/10W	
R94			RK73FB2A101J	CHIP R 100 J 1/10W	
R95			RK73FB2A103J	CHIP R 10K J 1/10W	
R96			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R97 ,98			RK73FB2A123J	CHIP R 12K J 1/10W	
R99			RK73FB2A562J	CHIP R 5.6K J 1/10W	
R100			RD14DB2H332J	SMALL-RD 3.3K J 1/2W	
R101,102			RK73EB2B104J	CHIP R 100K J 1/8W	
R103			RK73FB2A183J	CHIP R 18K J 1/10W	
R104			RK73EB2B472J	CHIP R 4.7K J 1/8W	
R107			RK73EB2B472J	CHIP R 4.7K J 1/8W	
R108			R92-0365-05	CHIP R 1.0K J 1/2W	
R109			RK73FB2A223J	CHIP R 22K J 1/10W	
R110			R92-0365-05	CHIP R 1.0K J 1/2W	
R111			RK73EB2B103J	CHIP R 10K J 1/8W	
R112			RK73FB2A104J	CHIP R 100K J 1/10W	
R113			RK73EB2B752J	CHIP R 7.5K J 1/8W	
R114			RK73FB2A561J	CHIP R 560 J 1/10W	
R115			RK73FB2A122J	CHIP R 1.2K J 1/10W	
R116			RK73FB2A104J	CHIP R 100K J 1/10W	
R117			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R118			R92-0365-05	CHIP R 1.0K J 1/2W	
R119			RK73FB2A103J	CHIP R 10K J 1/10W	
R120			RK73FB2A122J	CHIP R 1.2K J 1/10W	
R121,122			R92-2104-05	CHIP R 2.2 J 1W	
R124			RK73FB2A751J	CHIP R 750 J 1/10W	
R131			RK73FB2A333J	CHIP R 33K J 1/10W	
R132			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R133			RK73FB2A751J	CHIP R 750 J 1/10W	
R134			RK73FB2A431J	CHIP R 430 J 1/10W	
R135			RK73FB2A101J	CHIP R 100 J 1/10W	
R136			RK73FB2A273J	CHIP R 27K J 1/10W	
R141			RK73FB2A102J	CHIP R 1.0K J 1/10W	E
R142			RK73FB2A750J	CHIP R 75 J 1/10W	E
R143			RK73FB2A4R7J	CHIP R 4.7 J 1/10W	E
R144			RK73FB2A104J	CHIP R 100K J 1/10W	E
R145			RK73FB2A272J	CHIP R 2.7K J 1/10W	E
R146			RK73FB2A470J	CHIP R 47 J 1/10W	E
R147			RK73FB2A752J	CHIP R 7.5K J 1/10W	E
R148			RK73FB2A563J	CHIP R 56K J 1/10W	E
R149			RK73FB2A913J	CHIP R 91K J 1/10W	E
R150			RK73FB2A103J	CHIP R 10K J 1/10W	E
R151			RK73FB2A470J	CHIP R 47 J 1/10W	E
R152,153			RK73FB2A913J	CHIP R 91K J 1/10W	E
R161,162			RK73FB2A472J	CHIP R 4.7K J 1/10W	
R165,166			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R167,168			RK73FB2A223J	CHIP R 22K J 1/10W	
R173			RK73FB2A105J	CHIP R 1.0M J 1/10W	
R174			RK73FB2A272J	CHIP R 2.7K J 1/10W	

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E1 : KRC-878R **E4** : KRC-778RY
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KRC-778R/RV/RY/RYV,878R,PS978R

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Ref.No.	Add	New	Parts No.	Description				Destination
R181			RK73FB2A153J	CHIP R	15K	J	1/10W	
R191			RK73FB2A104J	CHIP R	100K	J	1/10W	
R192			RK73FB2A471J	CHIP R	470	J	1/10W	
R193			RK73FB2A104J	CHIP R	100K	J	1/10W	
R194			RK73FB2A471J	CHIP R	470	J	1/10W	
R195-197			RK73FB2A472J	CHIP R	4.7K	J	1/10W	
R198			RK73FB2A473J	CHIP R	47K	J	1/10W	
R201			RK73FB2A103J	CHIP R	10K	J	1/10W	
R202			RK73FB2A222J	CHIP R	2.2K	J	1/10W	
R203			RK73FB2A104J	CHIP R	100K	J	1/10W	
R204			RK73FB2A103J	CHIP R	10K	J	1/10W	
R205			RK73FB2A562J	CHIP R	5.6K	J	1/10W	
R206			RK73FB2A103J	CHIP R	10K	J	1/10W	
R207			RK73FB2A562J	CHIP R	5.6K	J	1/10W	
R208			RK73FB2A153J	CHIP R	15K	J	1/10W	
R209			RK73FB2A333J	CHIP R	33K	J	1/10W	
R210			RK73FB2A272J	CHIP R	2.7K	J	1/10W	
R211			RK73FB2A823J	CHIP R	82K	J	1/10W	
R212			RK73FB2A220J	CHIP R	22	J	1/10W	
R213-216			RK73FB2A103J	CHIP R	10K	J	1/10W	
R221			RK73FB2A100J	CHIP R	10	J	1/10W	
R251			RK73FB2A473J	CHIP R	47K	J	1/10W	EE2E4
R252			RK73FB2A473J	CHIP R	47K	J	1/10W	E3E5
R252,253			RK73FB2A473J	CHIP R	47K	J	1/10W	E1
R253			RK73FB2A473J	CHIP R	47K	J	1/10W	E2E4
R254			RK73FB2A473J	CHIP R	47K	J	1/10W	E
R254,255			RK73FB2A473J	CHIP R	47K	J	1/10W	E3E5
R256			RK73FB2A473J	CHIP R	47K	J	1/10W	EE1E2
R256			RK73FB2A473J	CHIP R	47K	J	1/10W	E4
R257,258			RK73GB1J473J	CHIP R	47K	J	1/16W	
R260,261			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R264			RK73FB2A222J	CHIP R	2.2K	J	1/10W	
R265			RK73FB2A225J	CHIP R	2.2M	J	1/10W	
R266-268			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R269,270			RK73FB2A562J	CHIP R	5.6K	J	1/10W	
R271			RK73GB1J104J	CHIP R	100K	J	1/16W	
R273			RK73GB1J222J	CHIP R	2.2K	J	1/16W	
R274			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R275			RK73FB2A472J	CHIP R	4.7K	J	1/10W	
R278			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R279			RK73FB2A222J	CHIP R	2.2K	J	1/10W	
R281,282			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R286			RK73FB2A473J	CHIP R	47K	J	1/10W	
R287			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R288			RK73FB2A223J	CHIP R	22K	J	1/10W	
R289			RK73FB2A104J	CHIP R	100K	J	1/10W	
R291			RK73FB2A124J	CHIP R	120K	J	1/10W	
R292			RK73GB1J472J	CHIP R	4.7K	J	1/16W	
R293			RK73FB2A472J	CHIP R	4.7K	J	1/10W	
R294			RK73FB2A273J	CHIP R	27K	J	1/10W	
R295,296			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R297			RK73FB2A472J	CHIP R	4.7K	J	1/10W	
R301			RK73FB2A470J	CHIP R	47	J	1/10W	
R302			RK73FB2A105J	CHIP R	1.0M	J	1/10W	
R303			RK73FB2A184J	CHIP R	180K	J	1/10W	
R304			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R305			RK73GB1J222J	CHIP R	2.2K	J	1/16W	
R307			RK73FB2A472J	CHIP R	4.7K	J	1/10W	
R313			RK73GB1J472J	CHIP R	4.7K	J	1/16W	
R314,315			RK73FB2A433J	CHIP R	43K	J	1/10W	
R316			RK73FB2A103J	CHIP R	10K	J	1/10W	
R317			RK73FB2A473J	CHIP R	47K	J	1/10W	
R318			RK73GB1J473J	CHIP R	47K	J	1/16W	
R321			RK73FB2A471J	CHIP R	470	J	1/10W	
R322			RK73FB2A104J	CHIP R	100K	J	1/10W	
R324			RK73GB1J472J	CHIP R	4.7K	J	1/16W	
R327,328			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R329			RK73GB1J472J	CHIP R	4.7K	J	1/16W	E
R330			RK73GB1J103J	CHIP R	10K	J	1/16W	
R331,332			RK73GB1J472J	CHIP R	4.7K	J	1/16W	
R334			RK73GB1J223J	CHIP R	22K	J	1/16W	
R335-337			RK73EB2B102J	CHIP R	1.0K	J	1/8W	
R338			RK73EB2B471J	CHIP R	470	J	1/8W	
R339-342			RK73EB2B102J	CHIP R	1.0K	J	1/8W	
VR1			R32-0229-05	SEMI FIXED VARIABLE RESISTOR				
W1 -4			R92-2052-05	CHIP R	0	J	1/10W	E2E3E4
W1 -4			R92-2052-05	CHIP R	0	J	1/10W	E5
W5 ,6			R92-2052-05	CHIP R	0	J	1/10W	E1
W7 ,8			R92-2052-05	CHIP R	0	J	1/10W	EE2E3
W7 ,8			R92-2052-05	CHIP R	0	J	1/10W	E4E5
W11			R92-2053-05	CHIP R	0	J	1/8W	
W33			R92-2052-05	CHIP R	0	J	1/10W	
PH1			T95-0231-05	OPTO ISOLATOR				
D1			RD6.8MW	ZENER DIODE				
D3			MA3062-M	ZENER DIODE				
D5			DAP202K	DIODE				
D5			MA152WA	DIODE				
D6			DAP202U	DIODE				E1E2E3
D6			DAP202U	DIODE				E4E5
D6			MA142WA	DIODE				E1E2E3
D6			MA142WA	DIODE				E4E5
D6 ,7			DAP202U	DIODE				E
D6 ,7			MA142WA	DIODE				E
D21			MA3062WA	ZENER DIODE				
D22			MA3062-M	ZENER DIODE				
D31			RM10ZLF	DIODE				
D32			1SR139-400	DIODE				
D33			MA4056(N)-M	ZENER DIODE				
D36			MA4056(N)-M	ZENER DIODE				
D37			MA4062(N)-M	ZENER DIODE				
D38			M1F60	DIODE				
D39 ,40			1SR139-400	DIODE				
D41			DAN202K	DIODE				
D41			MA152WK	DIODE				
D42			MA3220-H	ZENER DIODE				
D43			MA3056-M	ZENER DIODE				
D44			1SR139-400	DIODE				
D45			MA3075-M	ZENER DIODE				

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KRC-778R/RV/RY/RYV,878R,PS978R

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(X14-6182-7X)

Ref.No.	Add	New	Parts No.	Description	Destination
D46			MA3036-H	ZENER DIODE	
D50 ,51			DAP202U	DIODE	
D50 ,51			MA142WA	DIODE	
D52			DAN202K	DIODE	
D52			MA152WK	DIODE	
D53			HZM11N(B1)	ZENER DIODE	
D53			MA3110-L	ZENER DIODE	
D55			HZM11N(B1)	ZENER DIODE	E
D55			MA3110-L	ZENER DIODE	E
D56			MA3056-M	ZENER DIODE	E
D61			IMSA-6801	SURGE ABSORBER	
D71			DAN202K	DIODE	
D71			MA152WK	DIODE	
D72			MA3062-M	ZENER DIODE	
D73 ,74			DA204K	DIODE	
D73 ,74			KDS226	DIODE	
D75			MA3062WA	ZENER DIODE	
D76 -79			DA204K	DIODE	
D76 -79			KDS226	DIODE	
D81			HZM4.7N(B2)	ZENER DIODE	
D81			MA3047-M	ZENER DIODE	
D82			DAN202K	DIODE	
D82			MA152WK	DIODE	
IC1			UPD784217GC103	MI-COM IC	E2E3E4
IC1			UPD784217GC103	MI-COM IC	E5
IC1		*	UPD784218GC105	MI-COM IC	EE1
IC2			TDA7400	ANALOGUE IC	
IC3			M5237ML	IC(VOLTAGE REGULATOR)	
IC4			TDA7386	ANALOGUE IC	
IC5			TDA7401	ANALOGUE IC	EE1
IC6			TC7662BEOA	ANALOGUE IC	E
IC7 -9			NJM4565M-TE2	ANALOGUE IC	E
IC10			TC74HC02AF	IC	
IC11			TDA7479D	ANALOGUE IC	
IC12			NJM4565M-TE2	ANALOGUE IC	
IC13			BA6238A	ANALOGUE IC	
IC14			BR24C01AF	MEMORY IC	
IC14			M24C01-WMN6T	MEMORY IC	
IC15			S-80830ANNP	MOS-IC	
Q1 -4			2SC2412K	TRANSISTOR	E1E2E3
Q1 -4			2SC2412K	TRANSISTOR	E4E5
Q1 -4			2SD601A	TRANSISTOR	E1E2E3
Q1 -4			2SD601A	TRANSISTOR	E4E5
Q1 -6			2SC2412K	TRANSISTOR	E
Q1 -6			2SD601A	TRANSISTOR	E
Q18			DTC144EK	DIGITAL TRANSISTOR	
Q18			KRC104S	TRANSISTOR	
Q18			UN2213	DIGITAL TRANSISTOR	
Q19			DTA124EK	DIGITAL TRANSISTOR	
Q19			KRA103S	TRANSISTOR	
Q19			UN2112	DIGITAL TRANSISTOR	
Q20			2SB1565F(E,F)	TRANSISTOR	
Q21			2SC2412K	TRANSISTOR	
Q21			2SD601A	TRANSISTOR	
Q22			2SB1565F(E,F)	TRANSISTOR	
Q23			2SA1037K	TRANSISTOR	
Q24 ,25			2SC2412K	TRANSISTOR	
Q24 ,25			2SD601A	TRANSISTOR	
Q28			2SB1277(Q,R)	TRANSISTOR	
Q29			2SA1037K	TRANSISTOR	
Q30			DTA124EK	DIGITAL TRANSISTOR	
Q30			KRA103S	TRANSISTOR	
Q30			UN2112	DIGITAL TRANSISTOR	
Q31			DTC114EK	DIGITAL TRANSISTOR	
Q31			UN2211	DIGITAL TRANSISTOR	
Q32			DTC144EK	DIGITAL TRANSISTOR	
Q32			KRC104S	TRANSISTOR	
Q32			UN2213	DIGITAL TRANSISTOR	
Q33			2SD1760	TRANSISTOR	
Q35			DTC144EK	DIGITAL TRANSISTOR	
Q35			KRC104S	TRANSISTOR	
Q35			UN2213	DIGITAL TRANSISTOR	
Q36			DTA124EK	DIGITAL TRANSISTOR	
Q36			KRA103S	TRANSISTOR	
Q36			UN2112	DIGITAL TRANSISTOR	
Q37			2SC2412K	TRANSISTOR	
Q37			2SD601A	TRANSISTOR	
Q38			2SB1443	TRANSISTOR	
Q39			DTA123JK	DIGITAL TRANSISTOR	
Q40			DTC124EUA	DIGITAL TRANSISTOR	
Q40			UN5212	DIGITAL TRANSISTOR	
Q41			DTC114YUA	DIGITAL TRANSISTOR	
Q41			UN5214	DIGITAL TRANSISTOR	
Q42			2SB1443	TRANSISTOR	
Q43			DTC114YK	DIGITAL TRANSISTOR	
Q43			KRC107S	TRANSISTOR	
Q43			UN2214	DIGITAL TRANSISTOR	
Q44			DTA124EUA	DIGITAL TRANSISTOR	
Q44			UN5112	DIGITAL TRANSISTOR	
Q45			2SA1037K	TRANSISTOR	
Q51			DTC114YK	DIGITAL TRANSISTOR	
Q51			KRC107S	TRANSISTOR	
Q51			UN2214	DIGITAL TRANSISTOR	
Q55			2SC2412K	TRANSISTOR	E
Q55			2SD601A	TRANSISTOR	E
Q56			2SB1443	TRANSISTOR	E
Q57			2SC2412K	TRANSISTOR	E
Q57			2SD601A	TRANSISTOR	E
Q58 ,59			2SA1037K	TRANSISTOR	E
Q60 ,61			2SC2412K	TRANSISTOR	E
Q60 ,61			2SD601A	TRANSISTOR	E
Q62			2SA1037K	TRANSISTOR	E
Q71			DTA124EK	DIGITAL TRANSISTOR	
Q71			KRA103S	TRANSISTOR	
Q71			UN2112	DIGITAL TRANSISTOR	
Q72			DTC124EK	DIGITAL TRANSISTOR	
Q72			KRC103S	TRANSISTOR	
Q72			UN2212	DIGITAL TRANSISTOR	
Q82			DTC124EK	DIGITAL TRANSISTOR	
Q82			KRC103S	TRANSISTOR	

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E2 : KRC-778R **E5** : KRC-778RYV

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KRC-778R/RV/RY/RYV,878R,PS978R

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Ref.No.	Add	New	Parts No.	Description			Destination
Q82			UN2212	DIGITAL TRANSISTOR			
Q86 ,87			DTC124EK	DIGITAL TRANSISTOR			
Q86 ,87			KRC103S	TRANSISTOR			
Q86 ,87			UN2212	DIGITAL TRANSISTOR			
Q88 ,89			2SB1188(Q,R)	TRANSISTOR			
Q91			2SC4081	TRANSISTOR			
Q91			2SD1819A	TRANSISTOR			
Q92			DTA124EUA	DIGITAL TRANSISTOR			
Q92			UN5112	DIGITAL TRANSISTOR			
Q93			DTC114TK	DIGITAL TRANSISTOR			
Q93			UN2215	DIGITAL TRANSISTOR			
TH1			PTH9C42BD471Q	POSITIVE RESISTOR			
A1			X86-3222-70	TUNER UNIT			
DOLBY NOISE REDUCTION UNIT (X87-301X-XX)							
C1 -4			CK73FB1H471K	CHIP C	470PF	K	
C5			CE04NW1A330M	ELECTRO	33UF	10WV	
C6			CE04NW1A470M	ELECTRO	47UF	10WV	
C7 ,8			CK73FB1H103K	CHIP C	0.010UF	K	
C11 -14			CK73FB1C104K	CHIP C	0.10UF	K	
C15 ,16			CE04NW1A330M	ELECTRO	33UF	10WV	
C17			CK73EB1C474K	CHIP C	0.47UF	K	
C20			CK73GB1H562K	CHIP C	5600PF	K	
C21 ,22			CK73FB1E683K	CHIP C	0.068UF	K	E
C23			CK73FB1C224K	CHIP C	0.22UF	K	
C24			CK73GB1C393K	CHIP C	0.039UF	K	E1E2E3
C24			CK73GB1C393K	CHIP C	0.039UF	K	E4E5
C24			CK73GB1C473K	CHIP C	0.047UF	K	E
C25 ,26			CC73GCH1H560J	CHIP C	56PF	J	E
CN1			E40-9702-05	FLAT CABLE CONNECTOR			
CN2			E40-9218-05	PIN ASSY			
CN3			E40-9701-05	FLAT CABLE CONNECTOR			
CN4			E40-9703-05	SOCKET FOR PIN ASSY			
W1 -9			E31-0001-00	JUMPER WIRE			
R1 -4			RK73FB2A243J	CHIP R	24K	J 1/10W	
R5 ,6			RK73FB2A181J	CHIP R	180	J 1/10W	
R7			RK73GB1J203J	CHIP R	20K	J 1/16W	
R8			RK73GB1J564J	CHIP R	560K	J 1/16W	E1E2E3
R8			RK73GB1J564J	CHIP R	560K	J 1/16W	E4E5
R8			RK73GB1J684J	CHIP R	680K	J 1/16W	E
R9			RK73GB1J302J	CHIP R	3.0K	J 1/16W	E
R9			RK73GB1J362J	CHIP R	3.6K	J 1/16W	E1E2E3
R9			RK73GB1J362J	CHIP R	3.6K	J 1/16W	E4E5
R10			RK73GB1J303J	CHIP R	30K	J 1/16W	E
R10			RK73GB1J333J	CHIP R	33K	J 1/16W	E1E2E3
R10			RK73GB1J333J	CHIP R	33K	J 1/16W	E4E5
R11 ,12			RK73FB2A102J	CHIP R	1.0K	J 1/10W	E1E2E3
R11 ,12			RK73FB2A102J	CHIP R	1.0K	J 1/10W	E4E5
R11 ,12			RK73FB2A242J	CHIP R	2.4K	J 1/10W	E
R13			RK73EB2B4R7J	CHIP R	4.7	J 1/8W	
R18			RK73EB2B121J	CHIP R	120	J 1/8W	
VR1 ,2			R12-3100-05	TRIMMING POT.(10K)			
W11 ,12			R92-2052-05	CHIP R	0	J 1/10W	
W14			R92-2052-05	CHIP R	0	J 1/10W	

Ref.No.	Add	New	Parts No.	Description	Destination
S1			S40-1140-05	PUSH SWITCH	
IC1			CXA2560Q	ANALOGUE IC	E1E2E3
IC1			CXA2560Q	ANALOGUE IC	E4E5
IC1			CXA2561Q	ANALOGUE IC	E
Q1			DTC124EK	DIGITAL TRANSISTOR	
Q1			KRC103S	TRANSISTOR	
Q1			UN2212	DIGITAL TRANSISTOR	
MECHANISM ASSY (X92-379X-XX)					
ME1	3C	*	D40-1138-15	CASSETTE MECHANISM ASSY	
V	3C	*	N09-4368-05	MACHINE SCREW	
W	3D	*	N09-4377-05	TAPTITE SCREW (2X5)	
CASSETTE MECHANISM ASSY (D40-1138-15)					
1	2B		A10-4630-08	CHASSIS ASSY	
4	3B		D10-4375-08	SLIDER(MAIN PLATE)	
5	3A		D13-1494-08	GEAR(B)	
6	3A		D13-1495-08	GEAR(C)	
7	3A		D13-1496-08	GEAR(D)	
9	2B		D10-4376-08	ARM(P-G PLATE)	
10	2B		J90-0948-08	GUID	
11	2B		D15-0919-08	PULLEY(MID)	
12	2B		D13-1497-08	GEAR(P)	
15	2B		J21-9458-08	MOUNTING HARDWARE(HEAD P-AS)	
17	2B		G02-1332-08	FLAT SPRING(HEAD SP-P)	
20	2A		D13-1498-08	RACK GEAR(OP PLATE A)	
21	1A		D10-4377-08	LEVER(EJ-LEV-A)	
22	3B		D10-4378-08	LEVER(SB.PL-AS)	
23	2A		D10-4379-08	LEVER(OP-PL-HO)	
24	1A		D10-4380-08	LEVER(EJE-LEV-A)	
25	1A		G01-2960-08	TENSION COIL SPRING(E LEV-SP)	
26	3A		D13-1499-08	GEAR(FR)	
27	3A		D10-4381-08	ARM(FR-PLATE)	
30	2B		D10-4382-08	ARM ASSY(PINCH ROLLER F)	
31	2B		D10-4383-08	ARM ASSY(PINCH ROLLER R)	
33	1B		G01-2961-08	TORSION SPRING(SA)	
34	2B		D10-4384-08	ARM(SW)	
44	1A		E39-0305-08	WIRE HARNESS(M CONNECTOR ASSY)	
45	2A		J11-0632-08	CLAMPER	
48	3B		D01-0613-08	FLYWHEEL ASSY	
49	3B		D16-0616-08	BELT	
52	1B		D10-4385-08	ARM(CASSETTE LIFTER B)	
53	1B		J19-4953-08	CASSETTE HOLDER	
54	1A		G11-1861-08	CUSHION	
56	1B		D10-4386-08	ARM ASSY	
57	1B		G01-2962-08	TENSION COIL SPRING	
58	1B		D10-4387-08	SLIDER	
65	2A		B09-0522-08	REEL CAP	
66	2A		G01-2963-08	COMPRESSION SPRING	
67	2A		D03-0314-08	REEL GEAR ASSY	
75	3A		J69-0510-08	ADHESIVE TAPE(FFC)	
90	3A		J26-4036-08	PC BORD ASSY	
92	3A		E39-0306-08	FLAT CABLE(FFCM4)	
94	3A		T95-0245-08	PHOTO COUPLER	

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KRC-778R/RV/RY/RYV,878R,PS978R

SPECIFICATIONS

		KRC-PS978R	KRC-878R	KRC-778R/RY	KRC-778RV/RYV
FM	Frequency Range (MHz) (Frequency step)	87.5MHz~108.0MHz (50kHz)	87.5MHz~108.0MHz (50kHz)	87.5MHz~108.0MHz (50kHz)	87.5MHz~108.0MHz (50kHz)
	Usable Sensitivity (S/N 26dB)	0.7μV/75Ω	0.7μV/75Ω	0.7μV/75Ω	0.7μV/75Ω
	Quieting Sensitivity (S/N 46dB)	1.6μV/75Ω	1.6μV/75Ω	1.6μV/75Ω	1.6μV/75Ω
	Frequency Response (±3.0dB)	30Hz~15kHz	30Hz~15kHz	30Hz~15kHz	30Hz~15kHz
	S/N(dB)	65dB(MONO)	65dB(MONO)	65dB(MONO)	65dB(MONO)
	Selectivity(DIN)(dB)	≧80dB(±400kHz)	≧80dB(±400kHz)	≧80dB(±400kHz)	≧80dB(±400kHz)
	Stereo Separation	35dB(1kHz)	35dB(1kHz)	35dB(1kHz)	35dB(1kHz)
MW (AM)	Frequency Range (kHz) (Frequency step)	531kHz~1611kHZ (9kHz)	531kHz~1611KHZ (9kHz)	531kHz~1611kHZ (9kHz)	531kHz~1611kHZ (9kHz)
	Usable Sensitivity (S/N 20dB)	25μV	25μV	25μV	25μV
LW	Frequency Range (kHz)	153kHz~281kHz	153kHz~281kHz	153kHz~281kHz	153kHz~281kHz
	Usable Sensitivity (S/N 20dB)	45μV	45μV	45μV	45μV
CASSETTE	Tape Speed	4.76cm/sec.	4.76cm/sec.	4.76cm/sec.	4.76cm/sec.
	Wow/Flutter(wrms) (%)	0.08(%)(WRMS)	0.08(%)(WRMS)	0.08(%)(WRMS)	0.08(%)(WRMS)
	FREQ. Response (Hz)				
	(±3.0dB)	30~18kHz(70μs)	30~18kHz(70μs)	30~18kHz(70μs)	30~18kHz(70μs)
	Separation(dB)	43dB(1kHz)	43dB(1kHz)	43dB(1kHz)	43dB(1kHz)
	S/N(dB) Dolby NR OFF	57dB	57dB	57dB	57dB
	Dolby BNR on	65dB	65dB	65dB	65dB
	Dolby CNR on	73dB			
Preout Level(mV)/Load -Unbalanced		4500mV/10kΩ(CD/CD-CH)	1800mV/10kΩ(CD/CD-CH)	1800mV/10kΩ(CD/CD-CH)	1800mV/10kΩ(CD/CD-CH)
Preout Impedance(Ω)		80Ω	≦600Ω	≦600Ω	≦600Ω
AMPLIFIER	PWR(MAX)	45Wx4	45Wx4	45Wx4	45Wx4
	PWR DIN45324,+B=14.4V	28Wx4	28Wx4	28Wx4	28Wx4
TONE	Bass	100Hz±10dB	100Hz±10dB	100Hz±10dB	100Hz±10dB
	Treble	10kHz±10dB	10kHz±10dB	10kHz±10dB	10kHz±10dB
GENERAL	Operating voltage (11~16V allowable)	14.4V	14.4V	14.4V	14.4V
	Current Consumption	10A	10A	10A	10A
	Installation Size (W)	182(mm)	182(mm)	182(mm)	182(mm)
	(H)	53(mm)	53(mm)	53(mm)	53(mm)
	(D)	161(mm)	161(mm)	161(mm)	161(mm)
	Weight	1.7kg	1.7kg	1.7kg	1.7kg

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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PARTS LIST

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref.No.	Add	New	Parts No.	Description	Destination
A	3A		N09-4324-08	SCREW(2X2.5)	
B	2A		N19-2136-08	FLAT WASHER(1.55X35)	
C	2A		N09-4325-08	SCREW(2X13ADS)	
CM1	1A		T42-1002-08	MOTOR ASSY(MAIN)	
CM2	1A		T42-1001-08	MOTOR ASSY(SUB A)	
D	2A		N09-4326-08	SCREW(2X3)	
E	2A		N09-4058-08	SEMS(2X3AMS)	
F	2B		N19-2038-08	FLAT WASHER(0.85X2.8)	
G	2B		N19-2136-08	FLAT WASHER(1.55X3)	
H	2B		N19-2137-08	FLAT WASHER(2.1X3.5)	
HD1	2B		T31-0226-08	PLAYBACK HEAD	
J	3B		N19-2138-08	FLAT WASHER(2.1X3.5)	
K	3B		N09-4327-08	SCREW	
N	1B		N19-2139-08	FLAT WASHER(2.1X4.0)	

Ref.No.	Add	New	Parts No.	Description	Destination

E: Europe **K**: North America **M**: Other Areas

E : KRC-PS978R **E3** : KRC-778RV
E1 : KRC-878R **E4** : KRC-778RY
E2 : KRC-778R **E5** : KRC-778RYV

⚠ indicates safety critical components.